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789	HDACG50	871387	799	180 - 551	2204	1, L0439: 1, L0779: 1 and L0366: 1, AR052: 5, AR089: 5, AR060: 4, AR053: 4, AR096: 3, AR033: 3, AR104: 2, AR039: 1, AR055: 1, AR061: 1 L0748: 10, L0752: 9, L0731: 8, S0380: 7, L0758: 7, L0747: 6, H0038: 4, L0766: 4, L0438: 4, L0749: 4, S0003: 3, L0638: 3, L0768: 3, L0754: 3, L0770: 2, L0769: 2, L0774: 2, L0659: 2, H0522: 2, L0439: 2, L0740: 2, L0750: 2, L0786: 2, L0757: 2, L0759: 2, L0595: 2, L0362: 2, L0601: 2, S0040: 1, H0656: 1, S0354: 1, S0358: 1, T0008: 1, H0580: 1, S0045: 1, H0612: 1, H0497: 1, L0586: 1, H0013: 1, H0250: 1, H0635: 1, H0004: 1, S0010: 1, L0105: 1, H0546: 1, H0457: 1, H0083: 1, S0022: 1, S0214: 1, L0483: 1, H0031: 1, H0032: 1, H0673: 1, H0090: 1, H0412: 1, L0351: 1, H0494: 1,					87-103
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790	HWAGU6 2	871413	800	19 - 732	2205	Pro-94 to Lys-100, Glu-142 to Gln-147.	<p>H0633: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0772: 1, L0646: 1, L0764: 1, L0662: 1, L0775: 1, L0653: 1, L0384: 1, L0383: 1, L0664: 1, H0144: 1, H0520: 1, S0126: 1, H0435: 1, S0152: 1, H0521: 1, H0696: 1, H0555: 1, S0028: 1, S0260: 1, S0436: 1, L0589: 1, S0242: 1, S0194: 1, H0423: 1, H0422: 1 and S0424: 1.</p> <p>AR096: 6, AR039: 6, AR052: 6, AR089: 5, AR033: 5, AR053: 4, AR060: 4, AR055: 3, AR061: 3, AR104: 3, S0356: 10, S0422: 3, L0766: 3, L0803: 3, S0330: 3, H0486: 2, L0743: 2, L0731: 2, H0170: 1, L0785: 1, S0116: 1, S0442: 1, S0354: 1, S0358: 1, S0410: 1, S0278: 1, H0642: 1, H0581: 1, H0596: 1, H0355: 1, S0003: 1, L0455: 1, H0090: 1, H0591: 1, S0142: 1, S0344: 1, S0426: 1, L0598: 1, L0794: 1, L0804:</p>					211-238, 68-93, 146-164, 178-197, 1-22, 29- 45
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791	HOEBN65	871416	801	122 - 577	2206	Phe-17 to Ala-26, Arg-44 to Ile-51, Lys-64 to Asp-72, Thr-100 to Leu-110.	1, L0659: 1, L0809: 1, L0789: 1, L0664: 1, H0547: 1, H0660: 1, S0378: 1, L0751: 1, L0754: 1, L0779: 1, L0780: 1, L0758: 1, L0608: 1, S0026: 1 and H0543: 1.				120-148
							AR033: 21, AR055: 20, AR089: 14, AR061: 12, AR060: 11, AR053: 10, AR052: 9, AR039: 8, AR096: 8, AR104: 5 L0731: 11, L0752: 9, L0750: 7, L0748: 6, L0757: 6, L0758: 6, L0743: 5, H0012: 4, L0751: 4, L0755: 4, S0116: 3, L0783: 3, S0126: 3, S0044: 3, L0741: 3, H0445: 3, T0049: 2, H0255: 2, H0305: 2, S0358: 2, S0444: 2, S6026: 2, H0643: 2, H0257: 2, T0048: 2, H0150: 2, L0471: 2, H0620: 2, H0290: 2, H0213: 2, H0617: 2, H0494: 2, L0770: 2, L0769: 2, L0803: 2, L0776: 2, L0518: 2, H0658: 2, S0027: 2, L0747: 2, L0777: 2, L0587: 2, L0538: 2, L0604: 2, H0170:				

792	HOEEY60	871485	802	155 - 499	2207	Lys-38 to Ser-45.	1, H0149: 1, H0265: 1, H0140: 1, H0295: 1, H0294: 1, S0430: 1, H0657: 1, H0341: 1, H0484: 1, H0402: 1, H0125: 1, S0420: 1, S0360: 1, S0410: 1, L0467: 1, H0441: 1, H0370: 1, H0330: 1, H0600: 1, H0592: 1, H0586: 1, H0333: 1, H0492: 1, H0486: 1, H0156: 1, H0618: 1, H0253: 1, S0346: 1, H0581: 1, H0196: 1, H0204: 1, H0545: 1, H0123: 1, H0320: 1, H0014: 1, H0399: 1, H0594: 1, H0687: 1, H0252: 1, H0615: 1, T0006: 1, H0604: 1, H0182: 1, H0090: 1, H0616: 1, H0087: 1, H0412: 1, S0150: 1, S0142: 1, L0763: 1, L0761: 1, L0772: 1, L0764: 1, L0794: 1, L0533: 1, L0775: 1, L0653: 1, L0655: 1, L0659: 1, L0530: 1, S0330: 1, H0696: 1, S0406: 1, L0740: 1, L0754: 1, L0753: 1, H0667: 1, S0192: 1 and H0543: 1.	AR096: 37, AR089: 36, AR052: 30, AR053: 27,				15-37, 83- 99, 53-69
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793	HHECK12	871540	803	2 - 967	2208	Lys-14 to Gly-19, Asp-62 to Ile-67, Asn-87 to Glu-107.	L0438: 1, H0659: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, L0754: 1, L0755: 1, L0759: 1, S0434: 1, S0276: 1 and H0008: 1. AR104: 9, AR033: 9, AR039: 7, AR060: 7, AR089: 4, AR052: 2, AR055: 2, AR053: 2, AR096: 2, AR061: 1 S0010: 1, S0374: 1, L0366: 1, S0276: 1 and H0542: 1.				30-59, 17- 39, 233- 249
794	HTLEM32	871541	804	175 - 675	2209	Ile-35 to Leu-45, Lys-67 to Gly-72, Asp-115 to Ile-120, Asn-140 to Ser-154.	AR039: 20, AR033: 17, AR055: 14, AR104: 14, AR053: 13, AR060: 13, AR089: 12, AR061: 7, AR052: 7, AR096: 7				83-112, 70-92
795	HPMIT61	871619	805	31 - 498	2210		AR055: 7, AR052: 5, AR060: 4, AR089: 4, AR033: 4, AR061: 4, AR053: 3, AR096: 3, AR104: 2, AR039: 1 L0748: 4, L0809: 3, L0439: 3, L0777: 2, L0589: 2, S0278: 1, H0024: 1, H0644: 1, L0791: 1, H0547: 1, L0749: 1 and H0352: 1.				104-127
796	HHBOI72	871663	806	237 -	2211	Lys-4 to Arg-9,	AR052: 3, AR089: 3,				9-32, 170-

					1685	Asp-51 to Asp-56, Lys-251 to Thr-257, Asn-333 to Trp-339, Ala-411 to Pro-422.	AR053: 2, AR055: 2, AR096: 2, AR060: 1, AR033: 1, AR061: 1, AR039: 0, AR104: 0 H0484: 3, L0439: 3, S0354: 2, H0521: 2, H0265: 1, H0341: 1, S0356: 1, H0427: 1, H0052: 1, H0373: 1, H0553: 1, H0264: 1, H0494: 1, S0422: 1, L0666: 1, L0438: 1, S0270: 1, H0555: 1, H0576: 1, S0028: 1, L0743: 1, L0749: 1, L0777: 1, H0445: 1, S0436: 1 and H0543: 1.				203, 66- 89, 145- 166, 94- 113, 212- 228, 267- 283, 289- 305, 345- 361, 121- 137, 426- 442, 311- 327, 449- 465
797	HAPRN77	871674	807	26 - 379	2212		AR055: 21, AR033: 18, AR060: 14, AR039: 13, AR104: 11, AR052: 11, AR061: 11, AR089: 8, AR053: 6, AR096: 3 L0439: 3, H0351: 2, H0575: 2, L0794: 2, L0803: 2, L0751: 2, S0242: 2, S0358: 1, H0392: 1, H0333: 1, H0390: 1, L0471: 1, H0553: 1, H0264: 1, L0645: 1, L0766: 1, S0028: 1, L0748: 1, L0747: 1, L0749: 1, L0777: 1, L0601: 1, S0194: 1 and S0196: 1.				36-55

798	HLJDL43	871689	808	577 - 972	2213	His-2 to Gly-19, Gly-63 to Gly-70, Pro-89 to Ser-95, Lys-105 to Ser-118.	AR053: 27, AR052: 23, AR096: 23, AR033: 20, AR039: 19, AR104: 18, AR089: 14, AR060: 12, AR055: 11, AR061: 6 L0766: 8, H0521: 4, L0748: 4, L0439: 4, S0360: 3, H0581: 2, L0471: 2, H0135: 2, H0264: 2, L0805: 2, L0776: 2, L0754: 2, L0599: 2, H0423: 2, H0624: 1, H0265: 1, H0556: 1, S0040: 1, H0657: 1, H0662: 1, S0045: 1, S0222: 1, H0592: 1, H0485: 1, H0599: 1, H0575: 1, H0618: 1, S0010: 1, H0545: 1, H0009: 1, H0014: 1, T0010: 1, H0510: 1, H0375: 1, S0022: 1, H0591: 1, H0100: 1, S0142: 1, L0770: 1, L0761: 1, L0794: 1, L0375: 1, S0216: 1, S0374: 1, L0438: 1, H0520: 1, H0539: 1, S0027: 1, L0740: 1, L0751: 1, L0777: 1, L0752: 1, L0757: 1, L0759: 1, L0594: 1, L0366: 1, H0542: 1 and H0543: 1.				39-61, 71- 87
799	HTXOX92	871693	809	131 -	2214	Ser-31 to Trp-37,	AR033: 20, AR052: 14,				159-176,

					Pro-41 to Thr-49, Arg-54 to Lys-63, Tyr-119 to His-125, Pro-181 to Lys-189, Gly-340 to Lys-345.	AR060: 12, AR053: 11, AR039: 9, AR089: 9, AR096: 9, AR055: 8, AR104: 7, AR061: 4 L0439: 23, H0521: 14, H0494: 12, H0599: 11, H0038: 8, S0002: 8, L0655: 8, S0374: 8, S0404: 8, L0769: 7, L0775: 7, L0659: 7, L0749: 7, H0543: 7, L0471: 6, H0373: 6, S0440: 6, S0144: 6, L0748: 6, L0731: 6, S0434: 6, H0624: 5, S0040: 5, S0408: 5, S0346: 5, H0052: 5, S0214: 5, L0456: 5, H0616: 5, H0551: 5, H0560: 5, L0649: 5, L0518: 5, H0144: 5, S0152: 5, L0747: 5, L0758: 5, L0485: 5, H0393: 4, H0156: 4, H0204: 4, H0014: 4, T0010: 4, S0022: 4, H0328: 4, L0770: 4, L0646: 4, L0766: 4, L0774: 4, L0666: 4, L0663: 4, L0664: 4, L0665: 4, L0438: 4, H0659: 4, L0740: 4, L0745: 4, L0750: 4, L0757: 4, L0596: 4, L0604: 4, H0422: 4, S0358: 3, S0444: 3,			197-215, 246-265, 274-293, 128-145, 84-100, 218-234, 321-337
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	S0318: 1, S0316: 1, H0290: 1, S0314: 1, H0252: 1, H0615: 1, H0048: 1, H0213: 1, H0628: 1, H0032: 1, H0212: 1, S0364: 1, H0708: 1, S0366: 1, H0598: 1, H0591: 1, H0040: 1, T0067: 1, H0412: 1, H0059: 1, L0351: 1, L0564: 1, H0280: 1, S0014: 1, L0065: 1, S0150: 1, H0130: 1, L0369: 1, L0640: 1, L0501: 1, L0772: 1, L0372: 1, L0773: 1, L0521: 1, L0522: 1, L0803: 1, L0804: 1, L0650: 1, L0651: 1, L0378: 1, L0806: 1, L0653: 1, L0606: 1, L0807: 1, L0527: 1, L0657: 1, L0382: 1, L0792: 1, H0701: 1, S0148: 1, H0693: 1, H0724: 1, L0352: 1, H0689: 1, H0684: 1, S0328: 1, S0380: 1, H0518: 1, H0522: 1, H0696: 1, H0134: 1, H0631: 1, S0028: 1, S0206: 1, L0743: 1, L0756: 1, S0031: 1, L0599: 1, H0668: 1, H0665: 1, H0667: 1, S0192: 1, S0424: 1, S0462: 1, S0460: 1 and	
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800	HLJDU57	871712	810	10 - 435	2215	Glu-79 to Tyr-86.	H0506: 1. AR096: 6, AR089: 4, AR052: 3, AR060: 3, AR053: 2, AR033: 2, AR055: 2, AR061: 1, AR104: 1, AR039: 1 H0375: 1, L0649: 1 and H0522: 1.			1-30, 24-49, 92-113, 118-142, 51-71
801	HHFKL03	871735	811	38 - 718	2216	Ile-11 to Arg-16, Val-18 to Ser-25, Ser-28 to Thr-36, Glu-41 to Ser-46.	AR033: 10, AR089: 8, AR052: 7, AR053: 6, AR060: 6, AR096: 6, AR104: 5, AR055: 4, AR039: 3, AR061: 2			122-145, 66-83, 147-163, 171-187, 190-206, 48-64
802	HNTTB69	871818	812	540 - 839	2217	Pro-71 to Pro-80, Pro-87 to Phe-92, Leu-95 to Thr-100.	AR096: 1, AR104: 1, AR060: 1, AR089: 1, AR061: 0, AR033: 0, AR039: 0, AR055: 0, AR052: 0 L0595: 14, H0521: 7, L0783: 5, H0520: 5, H0547: 5, L0593: 5, S0356: 3, H0615: 3, L0794: 3, L0776: 3, H0519: 3, L0747: 3, L0596: 3, H0599: 2, H0251: 2, H0622: 2, H0038: 2, H0494: 2, L0769: 2, L0764: 2, L0771: 2, L0766: 2, L0740: 2, L0754: 2, L0755:			53-69

803	HKAAA37	871827	813	323 - 886	2218	Ile-162 to Pro-168, Glu-175 to Lys-188.	2, L0731: 2, H0657: 1, H0341: 1, H0663: 1, S0408: 1, S0045: 1, H0393: 1, H0331: 1, H0574: 1, T0114: 1, H0318: 1, H0046: 1, H0266: 1, H0328: 1, H0039: 1, H0591: 1, T0042: 1, H0561: 1, H0641: 1, S0002: 1, L0761: 1, L0800: 1, L0498: 1, L0803: 1, L0774: 1, L0805: 1, L0657: 1, S0126: 1, H0435: 1, S0454: 1, H0134: 1, H0436: 1, S0027: 1, L0749: 1, L0750: 1, L0591: 1, H0667: 1, H0542: 1, H0543: 1 and H0423: 1.					104-120, 80-97, 54- 70, 12-28, 122-138, 32-48
804	HACCB78	871878	814	121 - 588	2219		AR033: 2, AR053: 1, AR089: 1, AR060: 1, AR096: 1, AR052: 0, AR061: 0, AR039: 0 AR052: 16, AR053: 15, AR096: 13, AR055: 13, AR089: 10, AR033: 10, AR060: 9, AR061: 7, AR104: 6, AR039: 4 L0777: 3, L0769: 2, L0521: 2, L0665: 2, L0749:					26-48, 72- 88, 6-23, 91-107

805	HMAKM2 7	871887	815	866 - 1252	2220				2, L0758: 2, L0604: 2, H0624: 1, H0351: 1, H0586: 1, H0333: 1, H0427: 1, S0280: 1, L0021: 1, S0010: 1, H0194: 1, H0620: 1, H0051: 1, H0033: 1, H0090: 1, H0038: 1, L0637: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0776: 1, L0512: 1, L0783: 1, L0809: 1, L0663: 1, H0547: 1, H0682: 1, S3014: 1, L0439: 1, L0752: 1 and H0506: 1. AR055: 6, AR033: 5, AR052: 5, AR053: 5, AR060: 4, AR104: 4, AR096: 4, AR061: 3, AR089: 3, AR039: 0 L0438: 6, L0439: 5, H0661: 3, L0776: 3, H0556: 2, H0100: 2, L0598: 2, L0764: 2, L0766: 2, L0659: 2, H0672: 2, L0777: 2, L0731: 2, H0170: 1, H0171: 1, H0265: 1, H0140: 1, S0114: 1, H0657: 1, H0656: 1, H0638: 1, S0418: 1, S0408: 1, S0046: 1, H0411: 1, S0278: 1, H0550: 1, S0222: 1, T0104: 1, H0600:						58-82, 12- 28
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806	HTLEO76	871905	816	80 - 439	2221	Arg-16 to Thr-22.	1, S0280: 1, S0474: 1, H0007: 1, T0110: 1, H0046: 1, H0457: 1, H0150: 1, H0620: 1, H0057: 1, H0051: 1, H0039: 1, H0030: 1, L0055: 1, H0090: 1, H0413: 1, H0623: 1, H0059: 1, H0647: 1, H0529: 1, L0770: 1, L0646: 1, L0645: 1, L0521: 1, L0794: 1, L0650: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0547: 1, S0152: 1, H0576: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0779: 1, L0757: 1, L0758: 1, L0595: 1 and H0422: 1. AR096: 34, AR039: 27, AR089: 25, AR104: 18, AR060: 16, AR052: 14, AR033: 11, AR053: 10, AR055: 9, AR061: 6 H0253: 1, H0050: 1 and L0794: 1.				100-120, 54-71, 1- 17
807	HTPBR76	871944	817	467 - 856	2222	Met-1 to Ser-7.	AR033: 9, AR104: 6, AR055: 5, AR061: 5, AR039: 4, AR053: 3, AR060: 3, AR089: 3, AR052: 2, AR096: 2				41-57, 10- 26

808	HNTNH42	871982	818	1 - 768	2223	Ala-9 to Thr-14, Pro-25 to Asp-37, Gln-52 to Ile-59, Thr-80 to Pro-93.	L0771: 2, L0662: 2, L0756: 2, L0591: 2, S0282: 1, S0358: 1, S0444: 1, S0408: 1, S0010: 1, S0049: 1, H0327: 1, H0569: 1, H0014: 1, H0051: 1, H0039: 1, L0770: 1, L3905: 1, L0761: 1, L0774: 1, L0659: 1, L0789: 1, S0374: 1, L0438: 1, L0439: 1, L0747: 1, L0779: 1, L0777: 1, S0260: 1 and L0596: 1. AR052: 218, AR096: 199, AR089: 163, AR053: 162, AR060: 131, AR039: 50, AR033: 46, AR061: 41, AR104: 38, AR055: 18 L0731: 9, L0665: 6, H0024: 4, L0745: 4, L0747: 4, L0662: 3, L0794: 3, H0550: 2, H0081: 2, H0012: 2, S0022: 2, H0100: 2, L0769: 2, L0764: 2, L0659: 2, H0520: 2, L0777: 2, L0759: 2, H0685: 1, S0040: 1, S0354: 1, H0351: 1, H0392: 1, H0586: 1, L0021: 1, H0253: 1, L0157: 1, H0123: 1, H0050: 1, L0471: 1, H0328: 1, H0615: 1,							120-152
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809	HFRCB84	871985	819	123 - 554	2224				H0063: 1, L0598: 1, L0770: 1, L0638: 1, L0521: 1, L0768: 1, L0776: 1, L0629: 1, L0657: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, S0148: 1, H0670: 1, H0134: 1 and L0779: 1. AR055: 4, AR039: 0, AR061: 0, AR096: 0, AR060: 0, AR089: 0 H0738: 1, S0220: 1 and S0050: 1.				1-35, 29- 50, 76-94, 101-117
810	HLWDZ48	871994	820	97 - 645	2225				AR033: 16, AR096: 13, AR053: 13, AR104: 13, AR089: 12, AR052: 12, AR060: 8, AR039: 8, AR061: 6, AR055: 5 L0755: 20, L0740: 18, L0748: 14, L0749: 11, L0750: 10, L0766: 9, H0494: 8, L0769: 8, L0752: 8, L0754: 7, L0771: 6, L0758: 6, S0028: 5, L0747: 5, L0591: 5, S0360: 4, H0266: 4, H0657: 3, S0045: 3, H0575: 3, S0010: 3, L0768: 3, L0665: 3, S0126: 3, S0152: 3, L0439: 3, L0753: 3, L0731: 3, L0757:				129-148, 99-115, 79-95

811	HKAOC61	872013	821	170 - 628	2226		1, H0316: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, H0334: 1, S0150: 1, H0130: 1, S0210: 1, S0422: 1, L0638: 1, L0667: 1, L0372: 1, L0803: 1, L0774: 1, L0376: 1, L0784: 1, L0655: 1, L0659: 1, L0383: 1, L0382: 1, L0809: 1, L0792: 1, S0216: 1, H0144: 1, H0691: 1, S0148: 1, H0593: 1, H0682: 1, S0330: 1, H0521: 1, H0522: 1, H0704: 1, H0436: 1, S0027: 1, L0786: 1, L0759: 1, H0707: 1, L0480: 1, L0604: 1, S0192: 1 and S0460: 1. AR104: 19, AR061: 19, AR033: 18, AR055: 15, AR089: 15, AR060: 14, AR052: 9, AR039: 8, AR096: 8, AR053: 6 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512:				55-73, 6- 22, 84- 100, 24-40
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812	HHMJ13	872036	822	31 - 648	2227	Asn-33 to Thr-38,	AR052: 12, AR096: 7, S0194: 1.	2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.						106-122,
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70-87			AR053: 6, AR089: 5, AR060: 4, AR033: 4, AR039: 3, AR055: 2, AR104: 1, AR061: 1 H0457: 5, H0014: 5, L0779: 5, S0440: 4, S0374: 4, L0750: 4, S0358: 3, S0408: 3, H0553: 3, L0766: 3, L0665: 3, S0192: 3, S0212: 2, S0360: 2, H0497: 2, H0013: 2, S0003: 2, L0646: 2, L0662: 2, L0659: 2, L0663: 2, H0696: 2, L0740: 2, L0758: 2, T0002: 1, H0656: 1, H0638: 1, S0354: 1, S0376: 1, H0580: 1, L0467: 1, H0393: 1, S0222: 1, H0592: 1, H0587: 1, H0331: 1, H0156: 1, S0474: 1, H0581: 1, H0597: 1, H0050: 1, T0003: 1, H0015: 1, H0354: 1, H0271: 1, S0022: 1, H0032: 1, H0673: 1, H0090: 1, H0038: 1, H0616: 1, H0488: 1, H0561: 1, H0633: 1, S0144: 1, H0529: 1, L0520: 1, L0770: 1, L0373: 1, L0773: 1, L0768: 1, L0794: 1, L0388: 1, L0806: 1, L0656:	Thr-60 to Gln-71.							
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813	HTFOA36	872070	823	41 - 871	2228	Arg-13 to Arg-34, Gly-45 to Asn-50, His-198 to Pro-211, His-255 to Tyr-262.	AR096: 1, AR052: 1, AR089: 0, AR055: 0, AR061: 0, AR039: 0, AR060: 0, AR033: 0, AR104: 0, AR053: 0 S0053: 1, S0216: 1 and S0424: 1.	1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, S0052: 1, L0438: 1, H0584: 1, H0539: 1, S0152: 1, S0146: 1, H0555: 1, H0478: 1, L0609: 1, S0027: 1, L0747: 1, L0777: 1, L0592: 1, S0242: 1, H0543: 1, H0677: 1 and H0506: 1.				163-196, 73-89
814	HULEW22	872087	824	49 - 432	2229	Tyr-26 to Thr-34.	AR096: 2, AR089: 1, AR104: 1, AR033: 1, AR060: 0, AR061: 0, AR053: 0, AR052: 0, AR039: 0 H0208: 1, H0530: 1, H0494: 1 and L0654: 1.	AR096: 1, L0789: 1, L0666: 1, L0664: 1, S0052: 1, L0438: 1, H0584: 1, H0539: 1, S0152: 1, S0146: 1, H0555: 1, H0478: 1, L0609: 1, S0027: 1, L0747: 1, L0777: 1, L0592: 1, S0242: 1, H0543: 1, H0677: 1 and H0506: 1.				56-73
815	HWADE54	872092	825	2324 - 591	2230		AR096: 3, AR061: 2, AR089: 2, AR060: 2, AR055: 1, AR053: 1, AR033: 1, AR052: 1, AR104: 0 H0617: 6, L0794: 6,	AR096: 1, L0789: 1, L0666: 1, L0664: 1, S0052: 1, L0438: 1, H0584: 1, H0539: 1, S0152: 1, S0146: 1, H0555: 1, H0478: 1, L0609: 1, S0027: 1, L0747: 1, L0777: 1, L0592: 1, S0242: 1, H0543: 1, H0677: 1 and H0506: 1.				434-457, 352-372, 464-481, 498-514, 90-108, 415-431,

816	HEMH46	872093	826	60 - 596	2231	Ala-14 to Gly-23, Gly-28 to Ser-34, Gly-56 to Pro-66, Asp-74 to Ala-80, Pro-109 to Tyr-114, Pro-165 to Gln-174.	L0646: 1, L0374: 1, L0644: 1, L0764: 1, L0771: 1, L0649: 1, L0659: 1, L0542: 1, L0783: 1, L0789: 1, L0790: 1, L0792: 1, L0666: 1, S0053: 1, S0216: 1, H0144: 1, L0352: 1, H0547: 1, H0593: 1, H0689: 1, H0435: 1, H0670: 1, S0330: 1, H0521: 1, S0406: 1, H0631: 1, S3012: 1, S3014: 1, L0749: 1, L0755: 1, H0445: 1, S0436: 1, L0595: 1, S0011: 1, H0542: 1, H0423: 1 and H0506: 1.				135-152
817	HFPIX46	872113	827	1042 - 1389	2232	Met-1 to Ser-8, Arg-55 to Gly-60, Val-93 to Leu-99.	AR096: 13, AR039: 12, AR089: 12, AR104: 9, AR060: 9, AR055: 9, AR053: 8, AR052: 7, AR033: 7, AR061: 5 AR055: 8, AR033: 8, AR060: 5, AR061: 5, AR052: 4, AR096: 4, AR053: 4, AR104: 4, AR089: 3, AR039: 2 H0550: 1, S0222: 1, H0057: 1, S6028: 1, H0031: 1, H0560: 1, S0002: 1,				62-79, 98- 114

818	HHPDK44	872141	828	158 - 733	2233				S0426: 1, L0769: 1, L0775: 1, L0741: 1, L0740: 1, L0758: 1 and L0366: 1. AR096: 2, AR055: 2, AR089: 1, AR061: 1, AR104: 1, AR060: 0, AR053: 0, AR039: 0, AR033: 0, AR052: 0 L0805: 5, L0750: 3, L0777: 3, H0591: 2, L0803: 2, L0804: 2, H0520: 2, H0547: 2, L0744: 2, L0779: 2, L0752: 2, L0731: 2, S0282: 1, S0360: 1, S0300: 1, H0411: 1, H0013: 1, H0599: 1, H0042: 1, H0581: 1, H0251: 1, H0596: 1, H0123: 1, H0620: 1, H0014: 1, H0051: 1, H0328: 1, H0553: 1, H0169: 1, H0413: 1, S0422: 1, L0776: 1, L0791: 1, H0144: 1, H0519: 1, H0521: 1, H0522: 1, L0356: 1, L0439: 1, L0756: 1, L0780: 1, L0753: 1 and L0759: 1. AR033: 2, AR096: 2, AR104: 2, AR053: 2, AR060: 2, AR061: 2,				53-91, 51- 67
819	HE2FK85	872190	829	296 - 841	2234				4-26, 38- 64, 81- 110, 154-				

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820	HPQSL36	872224	830	48 - 404	2235					1, H0648: 1, S0330: 1, H0539: 1, H0521: 1, H0522: 1, S0404: 1, S0028: 1, S0206: 1, L0786: 1, L0780: 1, L0753: 1, L0755: 1, S0260: 1, S0434: 1, L0480: 1, L0591: 1, H0668: 1, S0026: 1, H0667: 1 and H0008: 1.				53-83, 73-95, 101-118, 20-36, 2-18
821	HEQBF64	872357	831	18 - 680	2236	Thr-68 to Gln-82, Val-198 to Val-203, Glu-205 to Asp-221.				AR039: 60, AR052: 32, AR053: 32, AR104: 27, AR033: 27, AR055: 26, AR089: 24, AR096: 21, AR060: 20, AR061: 12, S0136: 1 and H0521: 1.				6-24, 27-46, 89-105, 114-130, 163-179

L0747: 2, L0757: 2, L0758: 2, L0591: 2, L0615: 1, S0114: 1, H0657: 1, H0341: 1, H0483: 1, H0255: 1, H0663: 1, H0664: 1, S0418: 1, S0444: 1, S0360: 1, H0675: 1, S0410: 1, S0045: 1, H0574: 1, H0486: 1, T0039: 1, H0013: 1, H0004: 1, H0318: 1, H0581: 1, H0544: 1, H0545: 1, S0388: 1, H0107: 1, H0355: 1, H0510: 1, H0271: 1, L0194: 1, H0213: 1, H0166: 1, H0169: 1, H0135: 1, H0163: 1, H0591: 1, H0616: 1, H0551: 1, H0264: 1, S0016: 1, S0440: 1, H0633: 1, H0647: 1, S0144: 1, S0344: 1, L0762: 1, L0770: 1, L0769: 1, L0772: 1, L0771: 1, L0773: 1, L0662: 1, L0364: 1, L0803: 1, L0774: 1, L0378: 1, L0806: 1, L0653: 1, L0807: 1, L0518: 1, L0783: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0593: 1, H0696: 1, H0704: 1, S0406: 1, S0392: 1, H0627: 1, S0037: 1,
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822	HAMGB22	872526	832	2389 - 2081	2237	Lys-25 to Gln-31, Gln-94 to Tyr-103.	<p>S0027: 1, L0744: 1, L0748: 1, L0439: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, H0653: 1, H0665: 1, H0542: 1, S0424: 1 and S0384: 1.</p> <p>AR033: 3, AR053: 3, AR052: 3, AR096: 3, AR089: 2, AR060: 2, AR104: 2, AR039: 2, AR055: 2, AR061: 1, L0766: 7, L0758: 3, L0759: 3, H0038: 2, H0560: 2, L0804: 2, L0775: 2, L0751: 2, L0779: 2, L0595: 2, H0656: 1, S0212: 1, H0664: 1, S0354: 1, L0011: 1, H0156: 1, H0599: 1, S0346: 1, H0581: 1, H0673: 1, H0591: 1, H0413: 1, H0623: 1, S0038: 1, L0370: 1, H0561: 1, S0422: 1, L0770: 1, L0772: 1, L0642: 1, L0803: 1, L0774: 1, L0656: 1, L0663: 1, S0428: 1, H0519: 1, S0330: 1, H0539: 1, H0521: 1, H0555: 1, H0576: 1, L0588: 1, L0605: 1 and H0667: 1.</p>						66-83, 7-23
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823	HDABD89	872527	833	57 - 1514	2238	His-66 to Pro-80, Gly-139 to Ser-146, Phe-270 to Lys-275.	AR055: 4, AR089: 3, AR052: 2, AR033: 2, AR096: 2, AR053: 1, AR060: 1, AR061: 1, AR104: 1, AR039: 0 L0439: 26, L0438: 8, S0007: 7, H0547: 5, L0754: 5, H0618: 4, H0546: 4, H0617: 4, L0747: 4, S0376: 3, H0013: 3, H0253: 3, H0052: 3, H0009: 3, L0769: 3, S0206: 3, L0748: 3, H0295: 2, S0045: 2, S0046: 2, H0370: 2, H0123: 2, L0471: 2, H0135: 2, H0100: 2, L0766: 2, H0144: 2, H0539: 2, L0758: 2, L0588: 2, L0595: 2, L0411: 1, H0170: 1, H0556: 1, H0686: 1, S0040: 1, S0342: 1, H0657: 1, H0663: 1, H0662: 1, L0717: 1, H0602: 1, H0497: 1, H0333: 1, T0039: 1, H0156: 1, H0599: 1, T0048: 1, H0196: 1, H0545: 1, H0178: 1, H0567: 1, H0620: 1, H0023: 1, S0051: 1, T0010: 1, H0266: 1, S0022: 1, H0039: 1, H0628: 1, H0606: 1, H0032: 1,				149-165, 216-232
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824	HPMFU11	873145	834	1081 - 644	2239		H0383: 1, H0090: 1, H0087: 1, H0551: 1, T0067: 1, H0268: 1, H0412: 1, T0042: 1, H0494: 1, S0210: 1, L0369: 1, L0796: 1, L0800: 1, L0645: 1, L0764: 1, L0768: 1, L0540: 1, L0518: 1, L0783: 1, L0519: 1, H0520: 1, H0659: 1, H0658: 1, H0670: 1, H0672: 1, H0696: 1, S0044: 1, H0627: 1, S3014: 1, S0027: 1, S0028: 1, L0742: 1, L0779: 1, L0780: 1, L0757: 1, S0031: 1, T0047: 1 and H0008: 1. AR033: 5, AR060: 5, AR089: 5, AR096: 3, AR061: 2, AR053: 2, AR039: 2, AR104: 1, AR052: 1, AR055: 0 L0748: 13, L0747: 12, L0439: 11, L0766: 9, L0794: 7, H0013: 5, L0770: 5, L0749: 5, H0486: 4, L0754: 4, L0581: 4, H0657: 3, H0264: 3, L0662: 3, L0803: 3, L0804: 3, L0776: 3, L0789: 3, L0750: 3, L0779: 3, H0445: 3, H0656:					83-109
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825	HHEFL55	873186	835	98 - 661	2240	Asp-2 to Arg-9.	2, S0442: 2, H0586: 2, H0587: 2, H0427: 2, H0581: 2, L0157: 2, L0769: 2, L0775: 2, L0806: 2, L0659: 2, L0665: 2, H0144: 2, S0374: 2, L0438: 2, L0731: 2, L0596: 2, L0599: 2, H0685: 1, S0116: 1, H0306: 1, S0358: 1, S0408: 1, H0592: 1, H0706: 1, H0036: 1, S0346: 1, L0307: 1, H0251: 1, H0309: 1, T0110: 1, H0231: 1, H0057: 1, H0014: 1, H0510: 1, S0250: 1, H0252: 1, T0006: 1, H0030: 1, H0031: 1, H0553: 1, H0644: 1, H0361: 1, H0591: 1, H0433: 1, S0002: 1, L0761: 1, L0650: 1, L0784: 1, L0805: 1, L0655: 1, L0606: 1, L0515: 1, L0783: 1, L0809: 1, L0532: 1, L0663: 1, H0690: 1, H0518: 1, S0152: 1, H0521: 1, S0037: 1, L0744: 1, L0777: 1, S0260: 1, L0366: 1, H0677: 1, H0506: 1 and H0008: 1.	AR089: 1, AR033: 1, AR055: 1, AR061: 0,					145-174, 70-86, 94-
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110				AR096: 0, AR104: 0, AR060: 0, AR053: 0, AR039: 0, AR052: 0 L0748: 7, L0747: 7, L0777: 7, L0731: 7, L0803: 6, S0212: 4, L0751: 4, L0754: 4, S0358: 3, L0794: 3, L0517: 3, L0809: 3, H0663: 2, S0038: 2, L0637: 2, L0771: 2, L0775: 2, L0526: 2, L0783: 2, L0790: 2, H0144: 2, H0658: 2, L0744: 2, L0439: 2, L0752: 2, L0758: 2, L0594: 2, L0603: 2, H0624: 1, H0656: 1, S0408: 1, H0393: 1, H0549: 1, H0333: 1, L0477: 1, S0010: 1, H0581: 1, H0052: 1, H0567: 1, H0571: 1, H0011: 1, H0012: 1, H0620: 1, H0083: 1, H0099: 1, H0615: 1, H0688: 1, H0628: 1, H0135: 1, H0038: 1, H0616: 1, H0087: 1, H0264: 1, H0412: 1, T0042: 1, H0396: 1, H0647: 1, L0770: 1, L0662: 1, L0768: 1, L0766: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0657: 1, L0558: 1,						
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826	HHFJG66	873355	836	1277 - 2503	2241	Arg-16 to Thr-21, Gly-31 to Thr-36, Thr-53 to Val-68, Val-72 to Ser-86, Ser-121 to Arg-127, Met-151 to Ile-157, Asn-160 to Phe-176, Pro-190 to Val-198, Arg-293 to Gly-298, Glu-304 to Asp-312, Ser-319 to Ser-325, Gln-330 to Glu-336, Leu-386 to Asp-392.	L0792: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0670: 1, H0672: 1, S0328: 1, S0380: 1, L0779: 1, H0668: 1, H0667: 1, S0192: 1 and H0542: 1. AR055: 6, AR033: 5, AR052: 5, AR089: 5, AR053: 4, AR060: 4, AR061: 4, AR039: 3, AR104: 3, AR096: 2, H0295: 3, H0618: 3, H0052: 3, L0662: 3, H0619: 2, S0222: 2, L0768: 2, L0803: 2, H0521: 2, L0439: 2, L0754: 2, L0779: 2, L0758: 2, H0542: 2, S0114: 1, H0341: 1, H0483: 1, H0559: 1, L0586: 1, H0013: 1, H0253: 1, H0123: 1, H0012: 1, H0271: 1, H0687: 1, H0488: 1, H0413: 1, H0494: 1, S0150: 1, H0529: 1, L0637: 1, L0372: 1, L0643: 1, L0644: 1, L0645: 1, L0774: 1, L0666: 1, L0663: 1, L0664: 1, H0547: 1, H0519: 1, H0690: 1, S0328: 1, S0378: 1, S0190: 1, H0436: 1, S0037: 1,				240-257, 86-102, 362-378
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827	HBMWZ8 5	873653	837	476 - 778	2242	Thr-22 to Thr-33, Leu-92 to Thr-97.	S0027: 1, L0750: 1, L0601: 1, L0366: 1, S0424: 1 and H0506: 1. AR052: 114, AR053: 78, AR096: 69, AR055: 65, AR089: 48, AR039: 46, AR033: 46, AR104: 41, AR061: 38, AR060: 37 S0114: 4, S0010: 3, H0059: 3, H0171: 2, S0116: 2, S0046: 2, S0051: 2, S0126: 2, S0134: 1, S0218: 1, H0255: 1, S0045: 1, S0616: 1, S0222: 1, H0632: 1, H0013: 1, H0251: 1, H0263: 1, H0200: 1, H0628: 1, H0674: 1, H0135: 1, H0038: 1, H0087: 1, T0090: 1, S0150: 1, S0142: 1, S0044: 1, H0576: 1 and S0026: 1.				57-76, 2- 18
828	HTTEL61	873679	838	239 - 622	2243	Gln-3 to Trp-10.	AR061: 50, AR033: 45, AR089: 41, AR060: 36, AR055: 35, AR096: 33, AR053: 32, AR052: 32, AR104: 17, AR039: 10 H0040: 2, H0087: 1 and L0750: 1.				67-83
829	HHEKA25	873756	839	61 - 768	2244	Met-1 to Pro-7.	AR061: 11, AR089: 4, L0750: 1.	17p11.2	100710,	122-155,	

									AR039: 4, AR033: 4, AR104: 3, AR060: 3, AR055: 3, AR053: 3, AR052: 3, AR096: 2 L0731: 3, H0556: 2, T0109: 2, H0124: 2, L0754: 2, H0483: 1, S0358: 1, H0599: 1, H0081: 1, H0012: 1, H0024: 1, H0615: 1, H0622: 1, H0316: 1, S0036: 1, H0413: 1, H0130: 1, L0766: 1, S0126: 1 and H0542: 1.		182290, 201475, 270200, 601097, 601097, 601097, 602666	194-216, 86-102, 52-68
830	HTLEH76	873788	840	354 - 881	2245				AR055: 5, AR060: 3, AR089: 3, AR061: 3, AR033: 3, AR052: 2, AR104: 1, AR096: 1, AR053: 0, AR039: 0 H0253: 7, H0618: 6, L0758: 2, L0603: 2, H0050: 1, H0014: 1 and L0769: 1.			119-135
831	HHEVQ56	874064	841	325 - 645	2246	Ser-101 to Asm-106.			AR096: 4, AR033: 3, AR039: 3, AR053: 3, AR104: 3, AR052: 3, AR089: 2, AR061: 2, AR060: 2, AR055: 2 L0439: 5, L0777: 5, H0052: 4, L0803: 4, L0789: 4, L0666: 4, H0556: 3,			65-91, 15- 36, 42-58

832	HTPHY39	874346	842	410 -	2247	Asp-2 to Asp-9,	AR055: 10, AR039: 9, H0090: 3, L0770: 3, L0766: 3, H0670: 3, L0747: 3, L0756: 3, L0755: 3, S0354: 2, S0408: 2, H0580: 2, L0021: 2, H0135: 2, L0768: 2, L0805: 2, L0809: 2, L0787: 2, L0438: 2, H0547: 2, S0406: 2, L0754: 2, L0745: 2, L0758: 2, L0759: 2, L0393: 1, H0657: 1, H0656: 1, H0661: 1, H0662: 1, S0356: 1, S0358: 1, S0360: 1, H0549: 1, H0486: 1, H0581: 1, H0009: 1, H0014: 1, H0548: 1, H0268: 1, S0015: 1, S0144: 1, S0344: 1, L0769: 1, L0800: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0632: 1, L0655: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, L0352: 1, H0690: 1, H0521: 1, S0044: 1, L0740: 1, L0749: 1, L0752: 1, L0731: 1, S0192: 1, H0543: 1, H0423: 1 and H0506: 1.				119-139
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833	HPCR53	874354	843	74 - 454	2248	841	Val-21 to Leu-29, Pro-31 to Gly-36, Leu-64 to Gly-69, Gln-77 to Tyr-82, Glu-84 to Gly-92, Glu-107 to His-118.	AR033: 8, AR033: 7, AR060: 7, AR089: 7, AR052: 5, AR096: 5, AR061: 5, AR104: 4 H0437: 1, S0280: 1, T0110: 1, H0622: 1, L0745: 1, L0746: 1, L0731: 1 and L0596: 1.					54-77, 86- 102
834	HLQEW26	874356	844	226 - 561	2249		Thr-29 to His-47.	AR104: 1, AR096: 1, AR089: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0, AR053: 0, AR052: 0 AR052: 25, AR089: 20, AR033: 17, AR060: 16, AR055: 15, AR053: 15, AR104: 14, AR039: 9, AR061: 8, AR096: 8 L0662: 5, L0777: 5, L0805: 4, L0779: 4, L0755: 4, S0380: 3, L0750: 3, L0598: 2, L0770: 2, L0769: 2, L0637: 2, L0771: 2, L0774: 2, L0659: 2, L0663: 2, L0438: 2, H0521: 2, S0404: 2, L0439: 2, L0754: 2, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0574:					7-24, 80- 96

835	HSLJR04	874369	845	1102 - 1446	2250			1, H0156: 1, H0251: 1, L0738: 1, H0563: 1, H0566: 1, L0471: 1, H0373: 1, L0055: 1, H0163: 1, H0038: 1, H0477: 1, H0413: 1, S0422: 1, L0363: 1, L0768: 1, L0794: 1, L0804: 1, L0650: 1, L0775: 1, L0526: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0691: 1, H0648: 1, H0696: 1, S0406: 1, L0751: 1, L0745: 1, L0752: 1, L0758: 1, S0260: 1, H0444: 1, L0596: 1, L0592: 1 and L0608: 1.				75-109, 25-41
836	HCYBG26	874427	846	11 - 385	2251	Tyr-61 to Thr-67.		AR096: 2, AR055: 1, AR060: 1, AR089: 1, AR053: 0, AR033: 0, AR061: 0, AR104: 0, AR052: 0, AR039: 0 S0028: 3, H0204: 2, S0031: 2, H0381: 1, S0045: 1, L0105: 1, H0617: 1, S0144: 1, S0052: 1, S0152: 1 and S0390: 1.				96-120, 12-36, 69- 85, 42-58

837	HNGEZ52	874434	847	100 - 1254	2252			AR053: 54, AR052: 41 T0114: 2, H0644: 1, H0144: 1, H0521: 1 and L0750: 1. AR055: 7, AR060: 3, AR053: 3, AR089: 3, AR052: 3, AR061: 2, AR033: 2, AR096: 2, AR039: 0, AR104: 0 S0049: 1, T0090: 1, S0052: 1 and L0779: 1.			238-254, 53-70, 199-215
838	H2LAY37	874446	848	363 - 1172	2253	Asp-30 to Gly-38, Ser-71 to Arg-77, Leu-85 to Gly-91, Asp-127 to Gly-135, Glu-171 to Gly-176, Pro-182 to Glu-187.		AR052: 38, AR039: 15, AR060: 15, AR053: 15, AR033: 12, AR104: 10, AR089: 10, AR096: 9, AR055: 6, AR061: 6 H0638: 74, H0641: 68, L0747: 28, S0358: 26, H0521: 24, L0748: 23, S0360: 18, S0408: 18, L0754: 18, H0659: 15, L0757: 14, L0731: 13, H0250: 12, H0494: 12, S0026: 12, S0444: 11, S0440: 11, L0749: 11, S0328: 10, S0206: 9, L0750: 9, S0132: 8, H0574: 8, S0144: 8, L0740: 8, S0007: 7, S0414: 7, S0142: 7,			51-67, 214-230, 232-248

839	HCRND05	874528	849	88 - 534	2254	Ala-142 to Ser-149.	L0647: 1, S0052: 1, H0703: 1, H0689: 1, H0690: 1, H0435: 1, H0672: 1, S0378: 1, S0380: 1, S0152: 1, H0523: 1, H0555: 1, H0187: 1, H0631: 1, S0028: 1, S0032: 1, L0744: 1, S0260: 1, S0308: 1, S0434: 1, L0592: 1, L0608: 1, L0603: 1, H0668: 1, H0665: 1, H0136: 1, S0192: 1, S0196: 1, S0424: 1, S0462: 1, H0506: 1 and H0293: 1. AR096: 9, AR052: 9, AR104: 7, AR053: 6, AR039: 6, AR060: 5, AR089: 5, AR055: 4, AR033: 4, AR061: 3, H0551: 4, L0665: 3, H0547: 3, S0356: 2, S0360: 2, L0662: 2, L0527: 2, L0666: 2, L0754: 2, H0333: 1, H0012: 1, H0688: 1, H0553: 1, H0477: 1, L0770: 1, L0769: 1, L0650: 1, L0606: 1, L0790: 1, H0520: 1, H0682: 1, L0747: 1, L0779: 1 and L0755: 1. AR053: 52, AR096: 36,				6-39, 87-110, 58-74, 1-17
840	HCRNP66	874529	850	115 -	2255						113-140,

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841	HNTMD17	874559	851	266 - 790	2256	Met-1 to Tyr-14, Val-91 to Pro-99, Asp-101 to Gln-112.		AR033: 8, AR096: 6, AR052: 5, AR039: 5, AR053: 4, AR089: 4, AR104: 4, AR060: 3, AR055: 2, AR061: 2 L0438: 4, L0746: 4, H0717: 2, H0013: 2, H0581: 2, H0656: 1, H0580: 1, H0415: 1, H0069: 1, H0590: 1, L0471: 1, S6028: 1, H0266: 1, S0003: 1, H0328: 1, H0553: 1, H0644: 1, H0591: 1, H0038: 1, S0438: 1, H0647: 1, H0529: 1, L0766: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, L0752: 1, S0434: 1, S0192: 1 and H0542: 1.				155-171, 38-54
842	HMCZ52	874610	852	243 - 1187	2257	Pro-30 to Trp-38, Pro-100 to Lys-109, Tyr-129 to Ala-136, Val-144 to Lys-153, Pro-173 to Gly-178, Phe-193 to Asn-201,		AR055: 9, AR033: 8, AR052: 5, AR060: 5, AR096: 4, AR089: 4, AR061: 3, AR053: 3, AR104: 3, AR039: 2 L0779: 6, S0358: 4,				37-61, 12- 28, 70-86, 238-254

843	HOSOL09	874620	853	126 - 725	2258	Glu-223 to Gly-239, Thr-258 to Gln-263, Arg-286 to Ser-292, Cys-300 to Gln-306.	H0596: 3, S0002: 3, H0521: 3, S0344: 2, L0766: 2, L0651: 2, L0805: 2, L0776: 2, L0666: 2, S0380: 2, S0406: 2, L0756: 2, S0434: 2, S0444: 1, S0360: 1, H0675: 1, H0676: 1, H0318: 1, H0046: 1, H0050: 1, H0083: 1, H0688: 1, H0628: 1, H0413: 1, L0520: 1, L0638: 1, L0373: 1, L0646: 1, L0800: 1, L0662: 1, L0794: 1, L0652: 1, L0657: 1, L0659: 1, S0374: 1, H0670: 1, L0750: 1, L0777: 1, L0731: 1 and H0543: 1.					50-84, 25- 43, 120- 136
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844	HLQHJ48	874643	854	32 - 751	2259	Pro-2 to Gly-11, Gln-14 to Pro-19, Ala-92 to Asn-101, Gly-132 to Gly-137, Leu-145 to Pro-160, Asp-183 to Gly-191.	1, S0344: 1, S0426: 1, L0598: 1, L0794: 1, L0804: 1, L0659: 1, L0809: 1, L0789: 1, L0664: 1, H0547: 1, H0660: 1, S0378: 1, L0751: 1, L0754: 1, L0779: 1, L0780: 1, L0758: 1, L0608: 1, S0026: 1 and H0543: 1. AR055: 11, AR060: 5, AR053: 5, AR061: 5, AR033: 4, AR089: 4, AR052: 4, AR039: 3, AR096: 2, AR104: 2 L0439: 6, L0777: 3, H0632: 2, L0756: 2, S0360: 1, H0050: 1, H0688: 1, H0412: 1, H0494: 1, H0520: 1, H0670: 1 and L0758: 1.				223-240	
845	HTTUDU01	874708	855	117 - 989	2260	Ala-133 to Gly-140, Val-165 to Gly-173.	AR052: 33, AR053: 21, AR096: 18, AR089: 15, AR060: 13, AR055: 12, AR104: 12, AR033: 11, AR039: 8, AR061: 7 L0803: 6, H0040: 3, H0038: 2, L0756: 2, L0485: 2, L0593: 2, T0002: 1, S0040: 1, H0664: 1, S0356: 1, S0010: 1, T0110: 1,				51-69, 207-223, 141-157, 16-32, 186-202, 80-96	

846	HOSMQ26	874847	856	26 - 424	2261	Lys-8 to Thr-14, Glu-28 to Arg-34.	S0003: 1, T0006: 1, H0032: 1, H0598: 1, H0488: 1, H0412: 1, L0369: 1, L0638: 1, L0662: 1, L0626: 1, L0794: 1, L0804: 1, L0774: 1, L0791: 1, L0666: 1, H0520: 1, H0626: 1, L0779: 1, L0758: 1, L0759: 1 and S0026: 1. AR055: 9, AR060: 8, AR096: 6, AR052: 6, AR033: 6, AR053: 5, AR089: 4, AR061: 4, AR104: 4, AR039: 4 L0747: 4, L0777: 4, L0753: 4, L0588: 4, H0046: 3, L0766: 3, H0313: 2, L0374: 2, L0764: 2, L0773: 2, L0776: 2, H0659: 2, L0748: 2, L0752: 2, L0591: 2, H0542: 2, T0002: 1, S0040: 1, S0212: 1, H0663: 1, S0418: 1, S0376: 1, S0045: 1, H0351: 1, H0497: 1, H0263: 1, H0123: 1, S0003: 1, H0615: 1, H0068: 1, H0090: 1, H0264: 1, H0538: 1, S0002: 1, S0426: 1, H0529: 1, L0769: 1, L0372: 1, L0642: 1, L0662:	6p22	248611	103-130, 75-91
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847	HE8FA47	874915	857	1011 - 235	2262	Ser-59 to Trp-77, Lys-143 to Asp-150, Tyr-254 to Lys-259.	1, L0803: 1, L0375: 1, L0655: 1, L0659: 1, L0789: 1, H0520: 1, H0547: 1, H0660: 1, S0404: 1, H0631: 1, S3014: 1, L0749: 1, L0750: 1, L0779: 1, L0757: 1, L0581: 1, L0362: 1, S0276: 1 and H0423: 1.					103-137, 80-105, 165-184, 221-241, 195-211
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848	HMTME42	874948	858	38 - 547	2263	Glu-4 to Ala-10, Glu-24 to Glu-30, Glu-34 to Lys-43, Gly-69 to Cys-78, Asn-127 to Glu-132, Arg-145 to Phe-150.	AR039: 1, AR053: 1, AR033: 1, AR096: 1, AR052: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 0 H0031: 2, S0126: 2, L0748: 2, H0624: 1, H0341: 1, S0282: 1, S0046: 1, H0369: 1, H0431: 1, H0244: 1, T0082: 1, H0012: 1, H0266: 1, H0615: 1, H0039: 1, H0032: 1, H0090: 1, H0551: 1, S0002: 1, H0529: 1, L0794: 1, L0766: 1, L0791: 1, H0144: 1, H0520: 1, H0525: 1, H0436: 1, S0031: 1, L0592: 1, L0485: 1, H0665: 1 and H0543: 1.			76-93
849	HRADL60	874960	859	194 - 1183	2264	Met-22 to Arg-28.	AR060: 2, AR055: 2, AR033: 2, AR089: 2, AR096: 1, AR061: 1, AR052: 1, AR104: 0, AR039: 0, AR053: 0 L0777: 12, L0766: 9, L0803: 6, L0748: 5, L0752: 5, L0758: 5, L0759: 5, L0666: 4, L0794: 3, L0805: 3, L0743: 3, L0747: 3, S0222: 2, H0457: 2, S0003: 2, L0649: 2, L0804: 2,			130-146, 208-225, 1-17, 183- 199

850	HWLMB5 5	875096	860	231 - 947	2265	Ser-69 to Asp-76, Pro-126 to Gly-131, Asp-137 to Arg-144.	L0809: 2, L0663: 2, L0664: 2, H0539: 2, L0744: 2, L0740: 2, L0596: 2, L0362: 2, S0026: 2, H0624: 1, H0170: 1, H0717: 1, T0049: 1, H0402: 1, H0638: 1, S0420: 1, L0454: 1, S0356: 1, S0444: 1, S0360: 1, H0637: 1, H0393: 1, L0717: 1, H0486: 1, T0082: 1, L0163: 1, H0594: 1, H0266: 1, H0416: 1, H0328: 1, H0622: 1, T0006: 1, H0553: 1, H0674: 1, H0163: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0625: 1, H0538: 1, L0598: 1, L0770: 1, L0646: 1, L0764: 1, L0662: 1, L0375: 1, L0515: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, T0068: 1, H0520: 1, H0547: 1, H0684: 1, H0658: 1, H0518: 1, S0013: 1, S0146: 1, H0555: 1, L0779: 1, L0780: 1, L0757: 1 and S0462: 1. AR039: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 1, AR096: 1, AR033: 1, AR055: 0,						89-105, 113-29
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851	HUSGZ51	875230	861	9 - 1262	2266	Ile-43 to Arg-50, Phe-75 to Pro-83, Leu-109 to Val-116, Ile-122 to Thr-127, Pro-137 to Gly-149, Arg-184 to Gly-213, Lys-221 to Glu-228.	AR052: 0, AR053: 0 S0442: 6, L0777: 6, L0731: 5, L0775: 4, H0024: 3, H0586: 2, H0648: 2, H0521: 2, L0748: 2, H0638: 1, S0358: 1, S0376: 1, S0360: 1, H0587: 1, H0641: 1, H0646: 1, L0770: 1, L0643: 1, L0363: 1, L0803: 1, L0804: 1, L0783: 1, L0787: 1, L0666: 1, L0665: 1, H0593: 1, H0518: 1, S0406: 1 and L0779: 1. AR033: 13, AR053: 11, AR052: 10, AR089: 10, AR055: 7, AR060: 5, AR061: 5, AR096: 5, AR039: 4, AR104: 1, H0556: 10, L0748: 8, H0620: 7, L0747: 7, H0265: 5, L0637: 5, H0013: 4, H0551: 4, L0776: 4, L0663: 4, L0596: 4, H0622: 3, H0617: 3, L0772: 3, L0766: 3, S0126: 3, L0751: 3, L0752: 3, L0757: 3, S0031: 3, L0593: 3, H0657: 2, S0360: 2, S0222: 2, T0115: 2, H0009: 2, L0471: 2, H0594: 2, H0288: 2, H0039:	249-265	
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852	HWDAN8 6	875249	862	891 - 1205	2267				1, L0383: 1, L0665: 1, L0352: 1, H0593: 1, H0689: 1, H0682: 1, H0660: 1, S0328: 1, H0696: 1, S0044: 1, S0406: 1, S0037: 1, S3014: 1, S0206: 1, L0439: 1, L0754: 1, L0749: 1, L0750: 1, L0731: 1, L0759: 1, L0588: 1, L0362: 1, L0361: 1, H0653: 1, H0136: 1, S0196: 1, H0543: 1 and S0424: 1.	19q13	109560, 205900, 600652, 600757	55-71, 23- 39		
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853	HFATS83	875269	863	126 -	2268		H0294: 1, H0657: 1, H0663: 1, S0358: 1, S0376: 1, H0580: 1, S0045: 1, L0717: 1, H0549: 1, S0222: 1, H0601: 1, H0600: 1, H0592: 1, H0574: 1, H0559: 1, H0486: 1, T0040: 1, H0069: 1, S0010: 1, H0052: 1, H0085: 1, L0040: 1, H0327: 1, H0150: 1, H0620: 1, H0024: 1, H0266: 1, T0006: 1, H0644: 1, S0366: 1, H0135: 1, H0090: 1, H0059: 1, L0351: 1, H0494: 1, S0438: 1, H0647: 1, H0529: 1, L0763: 1, L5565: 1, L0372: 1, L0644: 1, L0773: 1, L0662: 1, L0768: 1, L0389: 1, L0805: 1, L0542: 1, L0783: 1, L0545: 1, L0792: 1, L0664: 1, S0374: 1, H0547: 1, H0658: 1, S0152: 1, H0696: 1, S0188: 1, S0406: 1, S0037: 1, S0027: 1, L0744: 1, L0745: 1, L0746: 1, L0749: 1, L0753: 1, L0758: 1, H0444: 1, L0603: 1, S0026: 1 and H0506: 1.	AR052: 4, AR053: 3, AR056: 1.				58-74
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854	HBION06	875295	864	774 - 1532	470	2269	Asn-18 to Cys-29, Tyr-51 to Tyr-59, Asp-113 to Gly-120, Ala-125 to Gly-130, Ala-212 to Ala-224.	AR089: 2, AR060: 2, AR033: 2, AR096: 1, AR055: 1, AR061: 1, AR104: 0, AR039: 0 S0300: 1 and H0204: 1. AR052: 28, AR053: 25, AR089: 10, AR055: 8, AR096: 8, AR033: 6, AR060: 4, AR039: 3, AR061: 3, AR104: 1 L0761: 8, L0806: 5, H0593: 5, H0436: 5, H0581: 4, H0052: 4, L0766: 4, H0521: 4, L0745: 4, L0731: 4, L0759: 4, S0356: 3, L0600: 3, H0624: 2, H0713: 2, H0333: 2, H0618: 2, H0546: 2, H0545: 2, H0457: 2, H0617: 2, H0606: 2, H0100: 2, L0770: 2, L0764: 2, L0774: 2, L0775: 2, L0653: 2, L0659: 2, L0547: 2, L0809: 2, L0666: 2, H0672: 2, H0539: 2, H0522: 2, L0751: 2, L0747: 2, L0750: 2, L0752: 2, L0757: 2, H0543: 2, H0583: 1, H0341: 1, H0484: 1, H0669: 1, H0306: 1, H0458: 1, S0418: 1, S0420: 1, H0675:	148-164, 178-194, 61-77
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855	HAPOO57	875330	865	41 - 1363	2270	Thr-94 to Ala-102.	1, H0676: 1, S0045: 1, H0550: 1, H0392: 1, H0592: 1, H0586: 1, H0587: 1, H0485: 1, H0635: 1, H0575: 1, H0253: 1, H0318: 1, H0544: 1, H0009: 1, H0688: 1, H0634: 1, H0087: 1, H0551: 1, L0351: 1, S0438: 1, H0641: 1, H0649: 1, S0002: 1, H0695: 1, L0763: 1, L3904: 1, L0773: 1, L0767: 1, L0649: 1, L0803: 1, L0650: 1, L0375: 1, L0776: 1, L0657: 1, L0783: 1, L4501: 1, L0663: 1, L0565: 1, H0519: 1, S0126: 1, H0689: 1, H0683: 1, H0684: 1, H0659: 1, H0670: 1, S0330: 1, S0380: 1, H0696: 1, H0134: 1, H0555: 1, L0609: 1, S0027: 1, S0028: 1, L0741: 1, L0743: 1, L0439: 1, L0777: 1, L0780: 1, S0434: 1, S0436: 1, H0216: 1, H0542: 1, H0423: 1 and H0506: 1. AR052: 7, AR096: 6, AR061: 5, AR089: 5, AR053: 5, AR055: 4, AR060: 4, AR033: 4,				125-156, 358-387, 215-247, 68-90,
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856	HCROG59	875405	866	198 - 581	2271	Met-1 to Leu-8.	H0641: 1, H0529: 1, L0763: 1, L0764: 1, L0794: 1, L0389: 1, L0650: 1, L0805: 1, L0809: 1, L0543: 1, L0664: 1, S0374: 1, H0547: 1, H0690: 1, H0659: 1, H0660: 1, H0666: 1, S0380: 1, H0631: 1, S014: 1, L0755: 1, L0759: 1, S0434: 1, H0665: 1, S0242: 1, S0276: 1 and H0423: 1.	17q23	106180, 138700, 139250, 150200, 154275, 176960, 249000, 253250	107-128	
							AR060: 3, AR089: 2, AR096: 2, AR053: 2, AR061: 2, AR033: 2, AR055: 2, AR039: 1, AR052: 1, AR104: 1 L0803: 5, L0777: 5, H0549: 3, H0150: 3, L0774: 3, L0809: 3, L0731: 3, H0662: 2, H0251: 2, L0769: 2, L0764: 2, L0648: 2, L0805: 2, L0746: 2, L0750: 2, L0779: 2, H0484: 1, S0356: 1, L0717: 1, H0550: 1, S0280: 1, T0082: 1, H0123: 1, H0024: 1, H0328: 1, H0644: 1, H0068: 1, L0794: 1, L0659: 1, H0693: 1, H0547: 1, H0689: 1, H0658: 1, H0696: 1, S0146:				

857	HDTBL01	875452	867	86 - 421	2272	Arg-4 to Phe-9.	1, S0206: 1, L0740: 1, L0747: 1, L0749: 1, L0758: 1 and L0603: 1. AR052: 220, AR053: 179, AR096: 154, AR089: 80, AR039: 52, AR055: 50, AR061: 39, AR060: 28, AR033: 28, AR104: 20 H0486: 1, L0775: 1, H0631: 1, L0749: 1 and L0755: 1.				83-103, 51-67
858	HHEJY07	875510	868	82 - 552	2273	Glu-43 to Lys-51, Lys-94 to Ser-99.	AR033: 4, AR060: 2, AR089: 2, AR061: 1, AR096: 1, AR055: 1, AR039: 0, AR053: 0, AR104: 0, AR052: 0 L0777: 5, L0803: 4, H0539: 3, H0521: 3, L0439: 3, L0755: 3, L0731: 3, S0420: 2, H0619: 2, H0421: 2, S0049: 2, H0617: 2, L0640: 2, L0794: 2, L0658: 2, H0693: 2, S0126: 2, L0748: 2, L0747: 2, L0749: 2, L0759: 2, L0588: 2, L0601: 2, H0294: 1, H0650: 1, H0484: 1, H0306: 1, S0356: 1, S0442: 1, S0358: 1, S0007: 1, L0717: 1,				125-153

859	HOFMV44	875558	869	212 - 1138	2274	Arg-88 to Trp-97, Ser-106 to Ser-115, Gly-130 to Tyr-137, Pro-146 to Trp-151, Val-187 to Ser-196, Ile-234 to Val-246, Pro-249 to Thr-255, Thr-280 to Ser-288.	H0592: 1, H0069: 1, H0618: 1, H0253: 1, S0010: 1, H0545: 1, H0150: 1, H0620: 1, H0488: 1, H0412: 1, H0494: 1, S0440: 1, L0770: 1, L0796: 1, L0637: 1, L0761: 1, L0772: 1, L0646: 1, L0764: 1, L0766: 1, L0774: 1, L0806: 1, L0776: 1, L0657: 1, L0788: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0665: 1, H0519: 1, H0593: 1, H0690: 1, H0682: 1, H0435: 1, H0518: 1, H0555: 1, L0743: 1, L0750: 1, L0779: 1, L0757: 1, L0758: 1, S0031: 1, S0434: 1 and H0542: 1.				205-224, 161-177, 61-77, 114-130, 21-37
						AR096: 3, AR052: 3, AR033: 2, AR089: 2, AR053: 2, AR055: 2, AR060: 1, AR061: 1, AR104: 1, AR039: 0 H0556: 2, H0305: 2, H0589: 2, S0356: 1, S0132: 1, H0415: 1, H0635: 1, S6028: 1, H0598: 1, H0591: 1, H0494: 1, S0002: 1, L0766: 1, L0803: 1, H0539: 1, L0740: 1 and L0777: 1.					

860	HSLJN60	875559	870	51 - 392	2275	Pro-107 to Asn-114.	AR055: 11, AR052: 6, AR061: 5, AR089: 5, AR060: 5, AR096: 4, AR033: 4, AR053: 4, AR039: 3, AR104: 1 H0031: 2, L0731: 2, L0599: 2, H0052: 1, H0263: 1, S0250: 1, H0606: 1, L0055: 1, H0169: 1, H0560: 1, H0509: 1, L0644: 1, L0766: 1, L0661: 1, L0526: 1, L0666: 1, S0380: 1, S0390: 1, L0779: 1, L0608: 1 and S0462: 1.				40-61, 64- 80
861	IHWHGQ4 4	875575	871	240 - 662	2276	Pro-63 to Cys-69.	AR039: 2, AR033: 2, AR089: 1, AR061: 1, AR052: 1, AR060: 1, AR096: 0, AR055: 0, AR104: 0, AR053: 0 L0758: 6, L0743: 5, S0366: 4, L0770: 4, L0662: 4, H0253: 3, H0591: 3, L0749: 3, L0779: 3, L0731: 3, H0656: 2, S0360: 2, H0586: 2, H0270: 2, H0052: 2, H0009: 2, L0766: 2, L0776: 2, S0328: 2, L0747: 2, L0605: 2, L0485: 2, S0114: 1, H0650: 1, H0657: 1, S0116: 1, S0001: 1,			17	45-63, 88- 104

862	HCQDA63	875590	872	758 - 1150	2277	Cys-107 to Pro-113.	H0255: 1, S0356: 1, S0354: 1, H0455: 1, H0333: 1, H0599: 1, H0706: 1, H0421: 1, S0049: 1, H0309: 1, H0597: 1, L0471: 1, H0012: 1, H0057: 1, H0286: 1, H0428: 1, H0039: 1, H0213: 1, H0708: 1, S0036: 1, H0090: 1, H0488: 1, T0042: 1, S0464: 1, H0641: 1, S0002: 1, L0639: 1, L0761: 1, L0772: 1, L0372: 1, L0646: 1, L0641: 1, L0764: 1, L0381: 1, L0774: 1, L0651: 1, L0806: 1, L0655: 1, L0783: 1, L0663: 1, H0520: 1, H0689: 1, H0690: 1, H0670: 1, H0672: 1, H0539: 1, H0710: 1, S0044: 1, S0404: 1, L0744: 1, L0751: 1, L0750: 1, L0753: 1, H0444: 1, S0434: 1, S0011: 1, S0276: 1, S0196: 1, S0042: 1, S0458: 1 and H0677: 1. AR052: 36, AR053: 21, AR055: 11, AR033: 11, AR060: 10, AR039: 10, AR104: 10, AR096: 10, AR089: 7, AR061: 6					66-86, 46- 62
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863	HMUBG89	875597	873	366 - 37	2278				L0803: 4, L0439: 3, L0777: 3, H0596: 2, L0471: 2, L0794: 2, L0776: 2, L0438: 2, L0744: 2, L0748: 2, L0750: 2, L0592: 2, S0470: 1, S0430: 1, S0222: 1, H0590: 1, S0474: 1, H0439: 1, H0024: 1, H0673: 1, H0400: 1, H0494: 1, L0521: 1, L0805: 1, L0664: 1, H0670: 1, H0555: 1, S0027: 1 and L0596: 1.				41-58, 73- 89, 2-18, 94-110
864	HCFCS58	875638	874	1392 - 1009	2279				AR039: 47, AR104: 21, AR096: 20, AR033: 19, AR053: 15, AR052: 14, AR089: 13, AR060: 11, AR055: 10, AR061: 8 L0805: 3, L0649: 2, L0803: 2, L0439: 2, L0740: 2, L0749: 2, L0750: 2, S0360: 1, H0266: 1, H0529: 1, L0794: 1, L0776: 1, H0672: 1, H0710: 1, H0696: 1 and L0748: 1.				89-109, 19-35, 70- 86

865	HWLMC4 9	875704	875	176 - 490	2280	Ser-45 to Gly-51.	1, T0068: 1, H0547: 1, H0670: 1, H0672: 1, H0522: 1, H0436: 1, L0439: 1, L0786: 1, L0780: 1, H0542: 1, H0543: 1 and S0424: 1. AR033: 10, AR089: 7, AR053: 6, AR061: 6, AR096: 6, AR055: 5, AR039: 5, AR052: 5, AR060: 4, AR104: 2 L0748: 2, S0376: 1, H0611: 1, H0036: 1, H0318: 1, H0052: 1 and L0766: 1.					83-105, 26-42
866	HFCDF47	875724	876	279 - 1133	2281	Asn-84 to Ser-89.	AR053: 16, AR052: 13, AR089: 12, AR055: 12, AR033: 10, AR104: 9, AR039: 9, AR096: 9, AR060: 6, AR061: 6 S0356: 1 and H0009: 1.					59-77, 10- 27, 91- 107, 35-51
867	HCRNJ24	875794	877	71 - 721	2282	Tyr-16 to Arg-23.	AR052: 4, AR096: 4, AR053: 3, AR033: 3, AR089: 3, AR060: 2, AR055: 2, AR104: 1, AR061: 1, AR039: 1 L0766: 4, S0356: 3, H0083: 2, H0266: 2, H0031: 2, L0666: 2, L0731: 2, H0543: 2, H0395: 1, S0040: 1, S0444: 1, S0045: 1,					183-203, 104-124, 132-148

868	HCRNT27	875817	878	50 - 556	2283	Ser-13 to Ile-22, Asn-54 to Lys-65, Ser-78 to Lys-93, Gly-146 to Pro-163.	H0587: 1, S0010: 1, H0581: 1, H0421: 1, H0687: 1, H0615: 1, H0622: 1, S0036: 1, S0386: 1, H0494: 1, S0210: 1, L0598: 1, L0794: 1, L0803: 1, L0775: 1, L0792: 1, L0663: 1, L0664: 1, H0520: 1, H0547: 1, S0380: 1, S3014: 1, L0748: 1, L0756: 1, L0755: 1, L0757: 1, L0759: 1, H0343: 1, H0668: 1 and S0026: 1, AR039: 7, AR104: 5, AR053: 5, AR052: 5, AR089: 4, AR096: 4, AR060: 3, AR033: 3, AR061: 1, AR055: 0 S0356: 2, L0747: 2, L0758: 2, H0341: 1, H0125: 1, H0581: 1, H0052: 1, S0003: 1, L0373: 1, L0662: 1, L0658: 1, H0547: 1, H0519: 1, L0777: 1 and L0604: 1.					127-143, 33-49
869	HCQCC37	875825	879	144 - 497	2284	Glu-19 to Gln-26, Asn-28 to Asn-33, Met-65 to Asn-71, Val-75 to Thr-87.	AR055: 8, AR053: 4, AR089: 4, AR052: 4, AR061: 4, AR060: 4, AR096: 4, AR033: 3, AR104: 1, AR039: 0					86-102

870	HFXKZ44	875911	880	13 - 528	2285	Ser-67 to Tyr-93, Thr-109 to Arg-116.	H0586: 1, H0596: 1, S0250: 1, S0152: 1, H0521: 1 and L0758: 1. AR104: 15, AR061: 14, AR055: 13, AR033: 11, AR052: 11, AR089: 11, AR060: 10, AR096: 7, AR053: 7, AR039: 5 L0731: 5, L0758: 5, H0620: 3, L0766: 3, S0360: 2, S0002: 2, L0809: 2, L0791: 2, L0748: 2, L0439: 2, L0747: 2, L0601: 2, H0556: 1, S0282: 1, H0125: 1, S0408: 1, H0549: 1, H0550: 1, S0222: 1, H0438: 1, H0592: 1, T0114: 1, H0581: 1, H0596: 1, S6028: 1, H0622: 1, H0135: 1, H0087: 1, H0059: 1, H0529: 1, L0769: 1, L0761: 1, L0372: 1, L0646: 1, L0804: 1, L0774: 1, L0776: 1, L0783: 1, L0543: 1, H0670: 1, H0555: 1, S3012: 1, L0757: 1, S0260: 1, L0596: 1 and L0361: 1.				1-24, 37- 60
871	HWAADI 5	875938	881	79 - 507	2286		AR039: 17, AR055: 13, AR033: 10, AR060: 10,			66-97, 101-131,	

									AR089: 10, AR104: 9, AR096: 9, AR052: 9, AR053: 8, AR061: 8 H0581: 2, L0766: 2, L0755: 2, S0360: 1, L0055: 1, L0598: 1, L0770: 1, L0772: 1, L0779: 1 and L0752: 1.			20-43, 1- 17
872	HDABX38	875997	882	172 - 975	2287	Glu-27 to Ser-34, Arg-106 to Asn-122, Arg-154 to Lys-163, Arg-214 to Tyr-225.			AR039: 17, AR053: 16, AR033: 12, AR052: 12, AR104: 12, AR096: 11, AR060: 10, AR055: 10, AR089: 9, AR061: 4 S0354: 1, H0497: 1, H0263: 1, H0551: 1, L0475: 1, H0547: 1, H0521: 1 and H0631: 1.			129-151, 185-201
873	HETJZ14	876053	883	2790 - 1531	2288	Tyr-57 to Gly-66, Asp-91 to Lys-101, Val-131 to Gly-137, Asn-146 to His-152, Phe-200 to Arg-209, Leu-217 to Cys-222, Pro-326 to Asn-332, Lys-360 to Phe-375, Val-397 to Ile-405.			AR055: 6, AR061: 6, AR033: 5, AR060: 4, AR052: 4, AR053: 3, AR089: 3, AR096: 3, AR104: 3, AR039: 2 L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3,			303-322, 229-245, 154-170, 248-264

874	HFCFB73	876111	884	217 - 1341	2289	Ala-17 to Asp-23, Pro-45 to Thr-53, Pro-55 to Glu-63, Trp-103 to Pro-117, Glu-198 to Tyr-209, Arg-257 to Thr-266, Pro-322 to Gly-328.	L0805: 1, L0655: 1, L0656: 1, L0647: 1, L0367: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0518: 1, S0152: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0780: 1, H0668: 1, S0242: 1, S0276: 1, H0543: 1, S0424: 1 and S0452: 1. AR033: 45, AR104: 33, AR089: 30, AR096: 25, AR060: 21, AR055: 17, AR053: 15, AR052: 14, AR061: 9, AR039: 8 H0046: 14, L0517: 10, L0809: 7, L0731: 6, L0759: 6, L0748: 5, L0749: 5, S0360: 4, H0009: 4, H0616: 4, L0758: 4, H0556: 3, H0428: 3, H0494: 3, L0774: 3, H0684: 3, H0478: 3, L0777: 3, H0624: 2, H0265: 2, S0116: 2, H0484: 2, S0408: 2, S0278: 2, L0471: 2, H0024: 2, H0266: 2, H0622: 2, L0662: 2, L0497: 2, L0805: 2, L0493: 2,				233-256, 136-160, 166-192, 337-355, 302-318, 211-227, 270-286
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875	H2LAJ32	876142	885	208 - 561	2290			H0648: 1, S0013: 1, H0696: 1, S0044: 1, S0190: 1, H0555: 1, H0631: 1, S3012: 1, S0027: 1, L0744: 1, L0750: 1, L0779: 1, L0752: 1, S0434: 1, S0436: 1, L0588: 1, L0591: 1, L0592: 1, L0593: 1, L0361: 1, L0601: 1, H0665: 1 and S0456: 1.				34-65	
876	HTPIQ89	876198	886	219 - 575	2291	Met-1 to Thr-12.		AR052: 5, AR055: 5, AR053: 4, AR060: 4, AR039: 3, AR033: 3, AR096: 3, AR061: 3, AR089: 3, AR104: 2, T0115: 1, H0046: 1, H0457: 1 and L0520: 1.				76-95, 46-64	
877	HTDAJ12	876209	887	298 - 870	2292	Gly-100 to Arg-106, Ser-111 to Cys-116.		AR055: 12, AR089: 7, AR033: 7, AR060: 6, AR052: 6, AR061: 6, AR053: 4, AR104: 4, AR039: 4, AR096: 2, H0039: 1, H0622: 1, L0764: 1, L0659: 1, L0809: 1, S0406: 1 and H0506: 1.				129-156	

878	IHWLGV14	876226	888	169 - 978	2293	Arg-16 to Thr-21.	AR055: 2, AR061: 1 S0360: 3, S0354: 2, H0637: 2, S0298: 1, H0427: 1, H0477: 1 and H0445: 1.				198-229, 63-92, 126-151, 97-115
879	HCQBI31	876372	889	58 - 408	2294	Lys-11 to Glu-16.	AR061: 45, AR060: 10, AR096: 4, AR039: 4, AR089: 3, AR033: 3, AR055: 2, AR052: 2, AR104: 1, AR053: 0 S0354: 1 and L0748: 1.				71-87, 18- 34, 93-109
880	HE9RM22	876418	890	322 - 660	2295		H0327: 1, L0763: 1, L0666: 1, L0663: 1, L0438: 1, S0378: 1, L0747: 1 and L0759: 1. AR061: 3, AR055: 3, AR060: 2, AR033: 2, AR104: 2, AR096: 1, AR053: 1, AR089: 1, AR052: 0, AR039: 0 L0748: 5, L0438: 3, S0360: 2, L0792: 2, L0439: 2, L0749: 2, L0759: 2, S0356: 1, H0333: 1, H0009:				41-66, 13- 29

881	HMUBP81	876452	891	1078 - 200	2296	Met-1 to Arg-10, Val-22 to Ser-27, Asp-34 to Thr-39, Glu-115 to Arg-121, Leu-162 to Ser-169, Ile-266 to Ser-271.	1, H0100: 1, L0803: 1, L0651: 1, L0776: 1, L0512: 1, H0144: 1 and L0352: 1. AR039: 34, AR033: 17, AR053: 15, AR104: 13, AR096: 13, AR089: 13, AR052: 11, AR055: 10, AR060: 10, AR061: 6 L0777: 10, L0769: 4, L0764: 3, L0740: 3, S0360: 2, T0042: 2, L0766: 2, L0775: 2, L0748: 2, L0779: 2, L0603: 2, H0650: 1, H0341: 1, S0358: 1, S0376: 1, L0021: 1, H0263: 1, H0046: 1, H0412: 1, H0529: 1, L0662: 1, L0767: 1, L0774: 1, L0776: 1, L0665: 1, H0648: 1, S0330: 1, L0755: 1, L0759: 1 and H0667: 1.	225-252, 50-66	
882	HFIUG54	876475	892	681 - 980	2297		AR039: 11, AR104: 8, AR096: 6, AR053: 5, AR055: 5, AR052: 4, AR089: 4, AR033: 3, AR060: 3, AR061: 2 L0803: 8, L0756: 4, L0659: 3, L0731: 3, S0418: 2, H0156: 2, H0551: 2,	64-84, 18- 37	

883	HOB AE30	876533	893	388 - 699	2298	Lys-25 to Lys-31, His-36 to Gln-42, Gln-84 to Cys-90.	L0369: 2, L0662: 2, L0766: 2, L0517: 2, L0665: 2, H0670: 2, S0380: 2, H0521: 2, L0740: 2, S0356: 1, S0376: 1, S0444: 1, S0360: 1, S0408: 1, H0329: 1, L0717: 1, H0497: 1, L0021: 1, H0004: 1, H0052: 1, H0044: 1, H0687: 1, T0006: 1, H0553: 1, H0674: 1, H0413: 1, H0633: 1, L0763: 1, L0770: 1, L0638: 1, L0667: 1, L0772: 1, L0764: 1, L0773: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0653: 1, L0527: 1, L0518: 1, L0809: 1, L0438: 1, S0330: 1, H0696: 1, L0744: 1, L0748: 1, L0779: 1, L0777: 1, L0752: 1, L0757: 1, H0343: 1, S0434: 1, L0590: 1, S0011: 1, H0667: 1, S0194: 1, S0196: 1 and H0423: 1. AR096: 2, AR089: 1, AR053: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0 L0754: 8, L0803: 6, L0748: 4, L0766: 3, S0376:					62-85, 1- 23
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884	HDABK73	876546	894	508 - 2508	2299	Glu-6 to Thr-20, Glu-63 to Met-74, Gln-79 to Thr-87, Ser-90 to Glu-105, Pro-113 to Gln-136, Phe-232 to Lys-249.	2, S0444: 2, S0360: 2, H0529: 2, L0663: 2, H0445: 2, L0603: 2, H0543: 2, H0657: 1, H0638: 1, S0420: 1, H0580: 1, H0393: 1, S0300: 1, L0717: 1, H0431: 1, H0643: 1, H0156: 1, H0581: 1, H0251: 1, H0014: 1, S0051: 1, S0003: 1, H0644: 1, H0090: 1, H0040: 1, S0472: 1, S0426: 1, L0598: 1, L0800: 1, L0641: 1, L0771: 1, L0521: 1, L0662: 1, L0768: 1, L0775: 1, L0805: 1, L0606: 1, L0657: 1, L0789: 1, L0665: 1, H0547: 1, H0519: 1, S0122: 1, H0658: 1, H0672: 1, H0539: 1, S0378: 1, H0521: 1, L0439: 1, L0752: 1, L0759: 1 and H0423: 1.					144-161, 182-198
885	HEMHA04	876674	895	529 -	2300	Pro-4 to Ser-9.	AR053: 12, AR052: 9, AR096: 8, AR089: 5, AR039: 4, AR055: 4, AR033: 3, AR060: 3, AR061: 3, AR104: 2 H0497: 1, H0263: 1 and L0601: 1.	AR033: 9, AR052: 8,				81-97, 11-

886	HHEOX44	876676	896	151 - 2649	2301	Met-1 to Gln-8, Val-18 to Lys-36, Glu-42 to Thr-49, Pro-51 to Asn-58.		AR096: 8, AR089: 7, AR060: 7, AR104: 7, AR055: 6, AR039: 6, AR053: 5, AR061: 4 L0777: 9, L0748: 8, L0770: 5, L0789: 2, L0747: 2, L0755: 2, L0758: 2, H0171: 1, H0650: 1, S0376: 1, H0580: 1, S0046: 1, H0411: 1, H0549: 1, H0587: 1, H0486: 1, H0013: 1, H0318: 1, H0581: 1, L0471: 1, T0006: 1, H0031: 1, H0135: 1, H0040: 1, H0560: 1, H0561: 1, H0529: 1, L0769: 1, L0662: 1, L0803: 1, L0774: 1, H0670: 1, S0037: 1, S0027: 1, L0439: 1, L0740: 1, L0750: 1, L0759: 1, S0026: 1, S0276: 1 and H0543: 1.				27
								AR104: 7, AR039: 6, AR096: 6, AR033: 5, AR052: 5, AR060: 4, AR089: 4, AR061: 3, AR053: 3, AR055: 2 L0779: 6, L0794: 5, L0439: 4, L0777: 4, L0758: 4, H0051: 2, H0040: 2, L0803: 2, L0775: 2, L0659:				727-748, 695-715, 222-240, 543-560, 676-692, 334-350, 521-537, 417-433, 655-671,

							2, L0663: 2, L0759: 2, L0608: 2, H0543: 2, H0556: 1, S0218: 1, H0657: 1, H0341: 1, S0444: 1, S0468: 1, H0013: 1, H0635: 1, H0599: 1, H0098: 1, H0318: 1, H0235: 1, T0110: 1, H0563: 1, H0292: 1, H0606: 1, H0056: 1, H0623: 1, S0440: 1, S0002: 1, L0644: 1, L0764: 1, L0773: 1, L0521: 1, L0662: 1, L0768: 1, L0766: 1, L0805: 1, L0528: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, L0665: 1, L0438: 1, H0547: 1, S0126: 1, H0659: 1, H0670: 1, H0672: 1, H0521: 1, L0740: 1, L0747: 1, L0752: 1, L0596: 1, L0485: 1, L0595: 1, H0136: 1, H0542: 1 and H0423: 1.				89-105, 256-272
887	HWBBS84	876726	897	242 - 814	2302	Tyr-14 to Gly-19, Lys-26 to Tyr-31, Asp-36 to Asp-41, Leu-68 to Glu-73, Pro-161 to Gly-168.	AR039: 17, AR104: 11, AR096: 11, AR089: 10, AR033: 8, AR053: 8, AR060: 7, AR052: 5, AR055: 5, AR061: 3 H0039: 3, H0580: 2, H0263: 2, S0430: 1, S0358: 1, H0250: 1, T0103: 1,				83-110, 43-59

888	HWLIP86	876744	898	111 - 608	2303	Thr-91 to Ser-97, Thr-108 to Tyr-119, Gln-142 to Glu-157.	H0040: 1, H0494: 1, H0641: 1, L0662: 1, L0803: 1, S0428: 1, S0328: 1 and L0747: 1. AR039: 6, AR096: 3, AR060: 3, AR052: 3, AR053: 2, AR061: 2, AR104: 2, AR089: 1, AR055: 1, AR033: 1 L0775: 5, L0772: 3, S0358: 2, L0773: 2, S0356: 1, H0052: 1, H0596: 1, H0014: 1 and L0764: 1.				115-143, 72-91, 6- 29
889	HSBAZ37	876799	899	1192 - 671	2304	Arg-45 to Gly-55, Asp-143 to Arg-150.	AR033: 37, AR053: 35, AR039: 33, AR055: 33, AR089: 32, AR052: 32, AR104: 30, AR061: 24, AR060: 20, AR096: 20				84-114, 113-142, 150-172, 55-74, 26- 43, 77-93
890	HOSXA83	877015	900	802 - 395	2305		AR055: 8, AR060: 7, AR052: 7, AR096: 6, AR089: 6, AR053: 5, AR033: 5, AR039: 5, AR104: 5, AR061: 3 S0360: 3, L0758: 2, L0596: 2, L0485: 2, L0362: 2, S0011: 2, S0021: 2, H0656: 1, S0116: 1, S0418: 1, S0045: 1, S0476: 1,				111-133, 22-38

891	HDQH51	877101	901	584 - 1168	2306	Asp-3 to Cys-9, Gly-68 to Leu-74, Lys-109 to Asn-132.	H0393: 1, H0566: 1, H0050: 1, H0364: 1, H0040: 1, L0666: 1, H0547: 1, S0126: 1, H0539: 1, L0777: 1, L0752: 1, S0031: 1, S0436: 1, L0591: 1, L0601: 1, S0196: 1 and H0423: 1.				10-40, 75- 104, 48- 64, 135- 151, 167- 183
892	HWAAB46	877162	902	30 - 875	2307	Met-1 to Gly-8, Asn-38 to Leu-44, Arg-46 to Gly-51, Gln-120 to Pro-128, Met-168 to Pro-174.	AR055: 1, AR089: 1, AR060: 1, AR061: 0, AR096: 0, AR052: 0, AR104: 0, AR039: 0, AR033: 0, AR053: 0 H0521: 3, H0124: 2, H0494: 2, S0040: 1, S0430: 1, H0650: 1, H0656: 1, S0356: 1, S0358: 1, H0645: 1, H0586: 1, H0587: 1, H0590: 1, L0045: 1, H0316: 1, H0598: 1, S0036: 1, H0591: 1, H0641: 1, L0766: 1, H0701: 1, H0689: 1, H0672: 1, L0439: 1 and L0596: 1.				181-198, 142-158, 68-84, 206-222, 96-112

893	HOGDT09	877219	903	2422 - 854	2308	Lys-60 to Ala-79, Thr-88 to Lys-101, Leu-106 to Glu-116.	L0740: 5, L0759: 4, L0749: 3, H0486: 2, L0471: 2, H0040: 2, L0803: 2, L0775: 2, L0517: 2, L0602: 2, L0747: 2, L0731: 2, S0342: 1, H0341: 1, S0354: 1, H0635: 1, H0581: 1, L0738: 1, H0046: 1, T0003: 1, S0388: 1, S6028: 1, H0622: 1, T0067: 1, H0413: 1, H0494: 1, S0142: 1, H0529: 1, L0520: 1, L0371: 1, L0761: 1, L0646: 1, L0800: 1, L0521: 1, L0794: 1, L0774: 1, L0657: 1, L0809: 1, L0666: 1, L0663: 1, L0665: 1, H0547: 1, H0670: 1, H0666: 1, H0648: 1, H0521: 1, S014: 1, L0754: 1, L0745: 1, L0594: 1, S0192: 1, S0276: 1 and H0506: 1.	AR052: 8, AR053: 5, AR096: 5, AR039: 3, AR060: 3, AR089: 3, AR033: 3, AR104: 3, AR055: 1, AR061: 1 L0766: 5, L0777: 5, L0803: 3, H0422: 3, H0624: 2, S0003: 2, S0214: 2,					41-57, 152-168
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894	HTEGT79	877252	904	62 - 1078	2309	Met-1 to Lys-23, Val-75 to Ser-81, Ser-126 to Trp-132, Leu-165 to Ala-178.	L0775: 2, L0527: 2, L0659: 2, L0779: 2, L0755: 2, L0604: 2, H0170: 1, H0171: 1, H0656: 1, S0376: 1, S0046: 1, H0486: 1, H0263: 1, H0014: 1, H0687: 1, H0031: 1, H0090: 1, H0634: 1, H0494: 1, H0561: 1, H0641: 1, L0770: 1, L0761: 1, L0800: 1, L0643: 1, L0773: 1, L0768: 1, L0794: 1, L0774: 1, L0776: 1, L0606: 1, L0537: 1, L0526: 1, S0006: 1, H0682: 1, H0435: 1, S0152: 1, H0521: 1, S0028: 1, L0743: 1, L0750: 1, L0758: 1, S0194: 1, H0542: 1 and H0506: 1. AR033: 6, AR060: 6, AR052: 5, AR089: 5, AR055: 5, AR053: 5, AR096: 5, AR104: 3, AR061: 3, AR039: 1 L0794: 7, L0754: 6, L0439: 4, L0777: 4, L0752: 4, L0758: 4, H0624: 3, L0766: 3, L0803: 3, H0521: 3, H0171: 2, S0420: 2, H0046: 2, S0214: 2, H0090: 2, H0494: 2, L0640: 2,						41-60, 319-335, 296-312
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895	HOEJS41	877267	905	10 - 591	2310	Gly-34 to Leu-41, Ala-54 to Lys-60,	L0768: 2, L0649: 2, L0804: 2, L0775: 2, L0657: 2, L0791: 2, L0664: 2, L0438: 2, H0520: 2, H0659: 2, S0152: 2, H0522: 2, L0747: 2, L0750: 2, L0756: 2, L0755: 2, L0757: 2, H0543: 2, S0040: 1, H0671: 1, H0661: 1, H0402: 1, H0638: 1, S0418: 1, S0360: 1, S0408: 1, H0333: 1, H0486: 1, H0156: 1, T0048: 1, H0597: 1, H0546: 1, H0014: 1, H0373: 1, H0375: 1, H0644: 1, H0316: 1, H0038: 1, L0060: 1, H0551: 1, H0512: 1, L0800: 1, L0643: 1, L0521: 1, L0651: 1, L0523: 1, L0654: 1, L0527: 1, L0526: 1, L0783: 1, L0528: 1, L0663: 1, H0519: 1, S0126: 1, H0365: 1, H0670: 1, S0378: 1, H0696: 1, S0032: 1, L0745: 1, L0779: 1, L0731: 1, L0759: 1, S0031: 1, L0597: 1, H0423: 1, S0384: 1 and H0506: 1.					72-93, 128-144,
						AR096: 5, AR033: 3, AR039: 2, AR089: 1,						

					Phe-100 to Ala-111, Ser-145 to Asn-154.	AR053: 1, AR061: 1, AR055: 1, AR060: 1, AR104: 0, AR052: 0 L0751: 5, H0556: 4, L0741: 4, L0779: 3, L0777: 3, H0617: 2, L0789: 2, S0126: 2, H0265: 1, S0360: 1, S0045: 1, S0278: 1, H0545: 1, H0009: 1, H0620: 1, H0510: 1, S0214: 1, H0038: 1, H0412: 1, H0413: 1, H0059: 1, H0494: 1, H0641: 1, L0770: 1, L0772: 1, L0800: 1, L0764: 1, L0794: 1, L0804: 1, L0659: 1, L0518: 1, L0809: 1, H0436: 1 and L0759: 1.					155-171, 173-189
896	HBXDI92	877294	906	184 - 918	2311	AR033: 2, AR096: 2, AR039: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 0, AR052: 0, AR053: 0, AR104: 0 H0551: 5, H0521: 4, S0007: 3, H0090: 3, S0038: 3, L0519: 3, S0126: 3, S0027: 3, L0439: 3, S0212: 2, S0282: 2, H0550: 2, H0492: 2, H0373: 2, H0553: 2, S0036: 2, L0565: 2, H0522: 2, L0599: 2, L0366:					221-241, 72-88

897	HHFMIH12	877387	907	299 - 2161	2312	Gly-3 to Val-12, Gln-24 to Ile-30, Asp-44 to Ala-51, Lys-57 to Arg-62, Thr-114 to Cys-121, Arg-157 to Tyr-162, Ser-166 to Asp-175,	2, H0542: 2, S6024: 1, S0116: 1, H0305: 1, S0356: 1, H0580: 1, S0278: 1, H0437: 1, S6014: 1, H0013: 1, H0575: 1, S0010: 1, S0665: 1, S0346: 1, S0474: 1, H0581: 1, H0052: 1, L0471: 1, H0014: 1, H0051: 1, S0003: 1, H0644: 1, L0142: 1, S0364: 1, H0591: 1, H0038: 1, H0616: 1, H0488: 1, H0494: 1, H0560: 1, S0150: 1, H0529: 1, L0662: 1, L0794: 1, L0804: 1, L0789: 1, S0374: 1, L0438: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, L0602: 1, H0518: 1, S0152: 1, L0612: 1, S0390: 1, S0028: 1, S0032: 1, L0759: 1, S0260: 1, S0308: 1, L0589: 1, L0595: 1, H0653: 1, H0667: 1 and S0194: 1.				123-154, 77-96, 240-256
							AR055: 5, AR096: 3, AR060: 3, AR033: 2, AR061: 2, AR052: 2, AR089: 2, AR053: 1, AR104: 1, AR039: 1 L0601: 9, L0769: 8, L0770: 6, L0659: 6, S0356:				

Asp-191 to Ser-198, Val-208 to Arg-214, Asp-225 to Lys-238, Ser-339 to Arg-344, Asn-481 to Glu-486.	5, H0622: 4, S0380: 4, L0749: 4, S0360: 3, T0010: 3, H0623: 3, S0038: 3, L0756: 3, L0731: 3, L0759: 3, S0442: 2, L0157: 2, H0100: 2, S0306: 2, L0645: 2, L0809: 2, L0666: 2, H0519: 2, S3014: 2, L0742: 2, L0748: 2, S0434: 2, H0352: 2, H0556: 1, H0295: 1, S0114: 1, S0134: 1, H0484: 1, S0444: 1, S0408: 1, H0722: 1, S0046: 1, S0132: 1, H0619: 1, H0393: 1, L0717: 1, S0222: 1, S6014: 1, H0370: 1, H0586: 1, T0040: 1, H0635: 1, H0427: 1, H0036: 1, T0048: 1, H0052: 1, H0194: 1, H0263: 1, T0110: 1, H0231: 1, H0563: 1, H0050: 1, H0023: 1, H0014: 1, H0083: 1, H0266: 1, S0250: 1, L0483: 1, H0048: 1, H0321: 1, S0036: 1, H0040: 1, H0634: 1, H0551: 1, H0272: 1, H0433: 1, H0412: 1, H0413: 1, T0041: 1, H0494: 1, S0372: 1, S0144: 1, S0142: 1, S0210: 1, L0800:						
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898	HDPFP36	877396	908	388 - 804	2313			1, L0764: 1, L0662: 1, L0363: 1, L0794: 1, L4500: 1, L0803: 1, L0650: 1, L0805: 1, L0653: 1, L0654: 1, L0655: 1, L0807: 1, L0658: 1, L0783: 1, L0382: 1, L0789: 1, L0793: 1, L0663: 1, H0691: 1, H0693: 1, H0520: 1, H0435: 1, H0704: 1, S0044: 1, S3012: 1, S0027: 1, L0747: 1, L0779: 1, L0777: 1, L0780: 1, L0753: 1, L0757: 1, L0758: 1, L0588: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1 and H0008: 1.				123-139, 105-121, 3-19
								AR052: 2, AR053: 2, AR055: 1, AR096: 1, AR089: 1, AR104: 1, AR033: 0, AR061: 0, AR060: 0, AR039: 0 L0740: 10, L0766: 9, L0777: 8, L0747: 7, L0803: 6, L0439: 6, L0794: 5, S0126: 5, H0265: 4, L0748: 4, L0749: 4, L0596: 4, H0580: 3, H0591: 3, L0774: 3, L0755: 3, L0757: 3, L0758: 3, H0305: 2, T0039:				

899	HDPWZ46	877573	909	2684 -	2314	Asp-114 to Val-130,	2, L0471: 2, S0250: 2, H0622: 2, S0306: 2, L0763: 2, L0662: 2, L0809: 2, H0547: 2, H0521: 2, L0754: 2, L0756: 2, L0752: 2, L0590: 2, S0192: 2, H0543: 2, H0556: 1, H0686: 1, S0040: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, H0261: 1, H0013: 1, H0635: 1, H0581: 1, H0052: 1, H0544: 1, H0546: 1, H0510: 1, H0267: 1, H0284: 1, S0022: 1, H0328: 1, H0615: 1, H0428: 1, H0031: 1, H0090: 1, H0616: 1, H0623: 1, L0564: 1, T0042: 1, H0494: 1, S0144: 1, S0210: 1, L0598: 1, L0369: 1, L0770: 1, L0761: 1, L0764: 1, L0768: 1, L0804: 1, L0775: 1, L0806: 1, L0657: 1, L0513: 1, L0541: 1, L0787: 1, L0788: 1, L0663: 1, L0664: 1, H0144: 1, S3014: 1, L0744: 1, L0750: 1, L0779: 1 and L0731: 1.				337-363,
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1431	Thr-182 to Lys-187, Lys-266 to Gly-271.	AR033: 1, AR104: 1, AR055: 1, AR061: 1, AR060: 0, AR039: 0, AR052: 0, AR053: 0 L0805: 53, L0776: 53, L0766: 8, L0748: 8, L0769: 7, L0758: 6, L0655: 5, H0318: 4, H0083: 4, H0424: 4, L0764: 4, L0439: 4, L0740: 4, L0749: 4, H0543: 4, L0770: 3, L0761: 3, L0646: 3, L0806: 3, L0783: 3, L0809: 3, L0666: 3, L0756: 3, L0777: 3, L0752: 3, H0650: 2, H0635: 2, L0157: 2, H0620: 2, S0344: 2, S0426: 2, L0667: 2, L0772: 2, L0663: 2, L0664: 2, L0665: 2, L0751: 2, L0747: 2, L0750: 2, L0608: 2, H0422: 2, H0624: 1, H0185: 1, H0556: 1, T0002: 1, H0656: 1, L0760: 1, H0341: 1, S0358: 1, H0637: 1, H0580: 1, L0103: 1, H0645: 1, H0393: 1, H0610: 1, H0455: 1, H0333: 1, H0581: 1, H0457: 1, H0009: 1, H0178: 1, H0050: 1, H0051: 1, S0388: 1, H0267:	11-32, 301-317, 54-70
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900	HFPBS73	878090	910	171 - 983	2315	Ala-8 to Asn-15, Asp-142 to Gly-147, Thr-212 to Val-218.	1, H0290: 1, H0688: 1, H0622: 1, H0096: 1, H0030: 1, H0617: 1, H0673: 1, H0087: 1, H0100: 1, H0641: 1, S0422: 1, L0598: 1, L0762: 1, L0796: 1, L0800: 1, L0642: 1, L0643: 1, L0645: 1, L0773: 1, L0662: 1, L0803: 1, L0774: 1, L0775: 1, L0787: 1, H0144: 1, L0438: 1, H0519: 1, H0659: 1, S0378: 1, H0521: 1, H0436: 1, S0028: 1, L0754: 1, L0779: 1, L0780: 1, L0755: 1, L0731: 1, L0757: 1, S0260: 1, H0216: 1, S0192: 1 and H0712: 1.				12-41, 41- 75, 226- 242, 64-80
901	HBBBE08	878159	911	593 - 925	2316		AR055: 7, AR033: 6, AR061: 4, AR060: 4, AR104: 3, AR089: 3, AR096: 3, AR053: 3, AR052: 2, AR039: 1 H0254: 2, S0045: 2, S0028: 2, H0255: 1, S0046: 1, S0222: 1, L0477: 1, H0042: 1, H0617: 1, S0126: 1, S3012: 1 and S0031: 1.				42-61

902	HNFB64	878172	912	623 - 1813	2317	Arg-40 to Thr-46, Phe-92 to Gly-101,	AR061: 1, AR039: 0, AR055: 0, AR104: 0, AR052: 0 L0756: 6, L0438: 5, H0052: 4, L0766: 4, L0439: 4, H0550: 3, L0774: 3, L0805: 3, H0580: 2, S0222: 2, H0486: 2, H0013: 2, H0457: 2, H0620: 2, L0662: 2, L0776: 2, H0689: 2, L0744: 2, L0740: 2, L0747: 2, H0149: 1, H0265: 1, H0657: 1, S0001: 1, S0356: 1, S0442: 1, S0360: 1, H0208: 1, H0351: 1, H0411: 1, H0369: 1, L0444: 1, H0249: 1, L0623: 1, H0156: 1, T0082: 1, S0010: 1, H0374: 1, H0009: 1, L0163: 1, H0201: 1, T0010: 1, H0674: 1, S0366: 1, S0036: 1, H0059: 1, S0038: 1, L0375: 1, L0517: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, H0651: 1, L0748: 1, L0745: 1, L0779: 1, L0752: 1, L0731: 1 and S0434: 1.				7-38, 367- 389, 255-
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					Pro-122 to Arg-129, Thr-179 to Arg-193.	AR089: 23, AR033: 21, AR055: 20, AR052: 19, AR060: 18, AR061: 9 H0521: 6, H0457: 5, H0622: 5, L0439: 4, H0255: 3, H0253: 3, S0152: 3, H0657: 2, S0420: 2, S0354: 2, H0550: 2, H0586: 2, H0587: 2, H0036: 2, H0618: 2, H0617: 2, H0135: 2, H0040: 2, H0694: 2, S0406: 2, H0667: 2, H0583: 1, H0650: 1, H0341: 1, H0484: 1, H0638: 1, H0580: 1, S0007: 1, H0393: 1, H0592: 1, H0575: 1, H0052: 1, H0266: 1, H0271: 1, H0416: 1, S0022: 1, H0688: 1, H0039: 1, H0644: 1, L0142: 1, H0181: 1, S0366: 1, H0488: 1, H0487: 1, H0059: 1, S0038: 1, L0766: 1, L0775: 1, L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0666: 1, H0539: 1, H0436: 1, H0478: 1, S3012: 1, L0742: 1, L0758: 1, S0434: 1, H0543: 1 and S0460: 1.				271, 194- 210
903	HBIMN78	878206	913	1287 - 46	2318 Pro-12 to His-17, Arg-53 to Ala-66,	AR104: 3, AR096: 2, AR052: 2, AR033: 2,				159-181, 341-360

						<p>Ser-83 to Gly-93, Asp-96 to Leu-106, Lys-203 to Gly-211, Ala-214 to Pro-219, Ser-246 to Lys-251, Arg-262 to Gly-270.</p>	<p>AR089: 2, AR053: 2, AR039: 2, AR055: 2, AR060: 1, AR061: 1 L0439: 10, L0758: 7, L0774: 5, S0404: 5, H0436: 5, L0731: 5, H0445: 5, L0769: 4, L0662: 4, L0666: 4, L0600: 4, H0716: 3, S0354: 3, H0581: 3, L0766: 3, L0776: 3, L0659: 3, S0406: 3, H0717: 2, H0294: 2, H0549: 2, H0586: 2, H0486: 2, H0327: 2, H0546: 2, H0457: 2, H0009: 2, L0471: 2, H0617: 2, H0551: 2, L0761: 2, L0800: 2, L0764: 2, L0768: 2, L0775: 2, L0809: 2, L0565: 2, S0380: 2, L0743: 2, L0748: 2, L0740: 2, L0779: 2, L0752: 2, L0759: 2, H0707: 2, L0592: 2, L0599: 2, H0341: 1, H0661: 1, H0663: 1, H0306: 1, S0418: 1, S0442: 1, S0358: 1, S0408: 1, S0045: 1, L0717: 1, H0602: 1, H0587: 1, H0427: 1, H0575: 1, H0318: 1, H0196: 1, H0052: 1, H0041: 1, H0354: 1, H0375: 1,</p>			
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904	HHEKH05	878208	914	16 - 1407	2319	Lys-24 to Arg-30, Glu-76 to Arg-82, Ala-246 to Glu-256, Thr-261 to Gly-266, Thr-284 to Glu-290, Gly-323 to Tyr-329, Phe-427 to Lys-433, Asn-435 to Trp-453.	Lys-24 to Arg-30, Glu-76 to Arg-82, Ala-246 to Glu-256, Thr-261 to Gly-266, Thr-284 to Glu-290, Gly-323 to Tyr-329, Phe-427 to Lys-433, Asn-435 to Trp-453.	H0266: 1, L0194: 1, L0055: 1, H0708: 1, S0366: 1, S0036: 1, H0264: 1, H0509: 1, S0344: 1, H0538: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0637: 1, L5575: 1, L0642: 1, L0773: 1, L0648: 1, L0649: 1, L0533: 1, L0805: 1, L0530: 1, L0647: 1, L0790: 1, S0428: 1, S0053: 1, H0701: 1, H0723: 1, S0310: 1, H0547: 1, H0593: 1, H0684: 1, H0658: 1, H0670: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, H0627: 1, H0631: 1, S3012: 1, S0027: 1, L0741: 1, L0747: 1, L0750: 1, L0786: 1, L0777: 1, L0755: 1, H0665: 1, S0194: 1, H0423: 1 and H0506: 1. AR033: 2, AR096: 2, AR089: 2, AR060: 2, AR061: 2, AR052: 1, AR055: 1, AR039: 0, AR053: 0, AR104: 0 H0556: 10, L0749: 7, L0758: 6, L0803: 5, L0748: 4, L0439: 4, L0751: 4,				1-23, 136- 154, 52- 68, 375- 391, 99- 115
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905	HHAUW8 1	878215	915	167 - 1189	2320	Arg-68 to Thr-75, Arg-91 to Val-104, Pro-203 to Pro-221, Leu-229 to Arg-252, Pro-282 to Gly-295.	LO731: 1, LO608: 1, H0136: 1, H0542: 1, H0543: 1 and H0423: 1. AR033: 7, AR104: 6, AR053: 5, AR052: 5, AR039: 4, AR096: 4, AR055: 4, AR060: 3, AR089: 3, AR061: 3 LO769: 5, LO766: 5, LO439: 5, S0358: 4, LO794: 4, LO438: 4, LO777: 4, H0618: 3, H0494: 3, H0561: 3, LO809: 3, H0638: 2, S0418: 2, S0420: 2, H0370: 2, S0049: 2, H0052: 2, H0050: 2, H0012: 2, H0059: 2, S0440: 2, S0002: 2, LO761: 2, LO803: 2, LO805: 2, LO665: 2, H0547: 2, LO742: 2, LO744: 2, LO748: 2, LO779: 2, LO758: 2, LO759: 2, H0556: 1, H0656: 1, H0255: 1, H0458: 1, S0444: 1, H0208: 1, H0393: 1, H0351: 1, H0261: 1, S0220: 1, H0333: 1, H0632: 1, H0581: 1, H0309: 1, H0046: 1, H0150: 1, LO116: 1, H0620: 1, LO163: 1, H0083: 1, H0615: 1, T0023:	9q33-q34.1	103000, 114350, 120900, 131195, 146150, 185000, 189980, 223900, 253800, 253800, 268900, 600184, 602575, 602575	176-193, 142-158
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906	HAUBB12	878260	916	144 - 749	2321	Thr-3 to Gln-9.	<p>1, H0424: 1, H0213: 1, H0617: 1, H0606: 1, H0673: 1, H0124: 1, H0135: 1, H0038: 1, L0351: 1, S0150: 1, S0344: 1, L0763: 1, L0796: 1, L0800: 1, L0768: 1, L0804: 1, L0774: 1, L0806: 1, L0629: 1, L0658: 1, L0545: 1, H0682: 1, H0658: 1, H0627: 1, L0741: 1, L0750: 1, L0752: 1, L0731: 1, L0757: 1, H0445: 1, L0589: 1, H0667: 1 and H0352: 1.</p> <p>AR053: 747, AR052: 436, AR096: 408, AR033: 219, AR104: 168, AR039: 132, AR089: 99, AR060: 82, AR055: 55, AR061: 30, H0052: 4, S0360: 3, L0662: 2, L0659: 2, H0672: 2, H0295: 1, H0294: 1, S0418: 1, S0442: 1, S0007: 1, S0476: 1, H0559: 1, S0049: 1, H0009: 1, H0563: 1, H0570: 1, H0566: 1, S0440: 1, L0520: 1, L0631: 1, L5575: 1, L0627: 1, L0643: 1, L0648: 1, L0803: 1, L0651: 1, L0805: 1,</p>						43-59
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907	HFPHS77	878291	917	358 - 771	2322	Met-1 to Gln-6, Ile-32 to Cys-40, Trp-89 to Arg-97.	L5623: 1, L0791: 1, L0793: 1, L0664: 1, H0689: 1, H0435: 1, S0406: 1 and L0592: 1. AR033: 10, AR055: 9, AR096: 7, AR089: 7, AR060: 7, AR104: 6, AR052: 5, AR053: 5, AR061: 5, AR039: 2 L0779: 4, H0671: 2, S0356: 2, S0222: 2, H0052: 2, L0754: 2, L0756: 2, T0002: 1, S0358: 1, H0574: 1, T0003: 1, S0051: 1, L0598: 1, L0794: 1, L0766: 1, L0803: 1, L0804: 1, L0775: 1, L0659: 1, L0789: 1, L0663: 1, H0144: 1, H0670: 1, H0651: 1, L0759: 1, L0362: 1 and S0026: 1.				39-63, 6- 28
908	HBGQN46	878306	918	216 - 683	2323	Ala-15 to Tyr-20.	AR096: 1, AR033: 1, AR089: 1, AR060: 1, AR052: 0, AR061: 0, AR039: 0, AR053: 0, AR104: 0, AR055: 0 H0617: 2, L0794: 2, L0766: 2, L0806: 2, L0777: 2, H0587: 1, L0767: 1, L0375: 1, L0790: 1, L0792:				59-92

909	HTAFG29	878308	919	1333 - 1707	2324	Pro-100 to Lys-107.	1, L0743: 1, L0779: 1 and L0780: 1. AR061: 2, AR039: 1, AR060: 1, AR089: 0, AR104: 0, AR055: 0 L0804: 5, L0794: 4, S0046: 3, L0769: 3, S0222: 2, H0604: 2, H0553: 2, L0654: 2, L0777: 2, L0780: 2, L0731: 2, L0599: 2, H0265: 1, H0556: 1, T0049: 1, S0444: 1, S0360: 1, L0717: 1, T0039: 1, H0013: 1, H0069: 1, H0635: 1, H0036: 1, H0085: 1, H0271: 1, H0188: 1, H0424: 1, H0628: 1, H0674: 1, H0551: 1, H0494: 1, L0373: 1, L0641: 1, L0764: 1, L0768: 1, L0523: 1, L0806: 1, L0790: 1, L0665: 1, S0374: 1, H0684: 1, H0555: 1, S0390: 1, L0748: 1, L0751: 1, L0747: 1, S0276: 1 and H0422: 1.				70-87, 37- 53
910	HDPCT51	878310	920	315 - 1847	2325	Gly-83 to Ser-92, Tyr-100 to Phe-113, Asp-127 to Asp-138, Asp-194 to Gly-200,	AR039: 33, AR033: 18, AR104: 17, AR053: 15, AR096: 15, AR089: 14, AR055: 13, AR052: 11,				426-452, 226-251, 354-379, 315-334,

911	HMACZ08	878313	921	560 - 1174	2326	Gln-222 to Ser-227, Gln-476 to Gly-489, Gly-499 to Glu-505.	AR060: 10, AR061: 8 H0424: 7, H0521: 7, H0581: 3, H0033: 3, L0438: 3, H0522: 3, H0549: 2, H0271: 2, H0135: 2, S0040: 1, H0295: 1, S0001: 1, S0046: 1, H0250: 1, S0280: 1, H0575: 1, H0457: 1, H0009: 1, H0123: 1, S0340: 1, H0039: 1, H0405: 1, H0040: 1, H0647: 1, S0002: 1, H0547: 1, H0684: 1, S0152: 1, L0439: 1 and H0543: 1.	Xp22.1	300075, 300077, 301200, 302350, 306000, 306000, 306100, 307800, 309510, 311770, 312040, 312170, 312700, 313400	108-140, 36-58, 64- 85, 145- 161, 81-97	3-21, 343- 359, 285- 301, 393- 409	
						Phe-16 to Asn-23, Arg-166 to Ser-183, Met-188 to Glu-193.	AR053: 115, AR052: 80, AR096: 71, AR039: 59, AR060: 41, AR089: 40, AR033: 37, AR104: 35, AR055: 29, AR061: 17 S0007: 10, L0748: 7, H0013: 3, S0010: 3, L0771: 3, L0438: 3, L0439: 3, L0591: 3, S0040: 2, S0222: 2, H0156: 2, H0083: 2, H0510: 2, S0003: 2, H0032: 2, L0519: 2, H0521: 2, S0260: 2, L0596: 2, S0276: 2, H0265: 1, H0556: 1, S0134: 1, H0675: 1, S0346: 1, H0196: 1, H0309: 1,					

912	HOHCA01	878348	922	169 - 1824	2327	Leu-2 to Leu-7, Leu-14 to Arg-46, Pro-73 to Arg-80, Ile-100 to Ile-105, Lys-113 to Val-126.	H0327: 1, H0530: 1, H0051: 1, H0266: 1, S0314: 1, S0022: 1, H0031: 1, H0553: 1, H0212: 1, H0038: 1, H0380: 1, H0264: 1, H0100: 1, H0509: 1, S0144: 1, L0763: 1, L0372: 1, L0374: 1, L0803: 1, L0775: 1, L0776: 1, S0216: 1, S0148: 1, H0670: 1, H0539: 1, H0518: 1, H0696: 1, S0146: 1, S0406: 1, S0028: 1, L0749: 1, L0779: 1, S0026: 1, S0192: 1 and S0242: 1. AR055: 2, AR060: 1, AR089: 1, AR061: 0, AR096: 0, AR033: 0, AR104: 0, AR053: 0, AR039: 0 H0124: 3, S0280: 2, S0212: 1, H0484: 1, S0356: 1, S0354: 1, H0370: 1, H0618: 1, H0046: 1, H0051: 1, S0250: 1, H0553: 1, H0087: 1, H0551: 1, H0560: 1, H0625: 1, H0561: 1, L0369: 1, H0519: 1, H0593: 1, L0740: 1, S0196: 1 and S0424: 1.					45-74, 395-413, 174-190, 336-352, 275-291, 466-482
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913	HTPEF72	878349	923	1399 - 1815	2328	Pro-4 to Pro-11, Pro-37 to Pro-50.	AR089: 17, AR053: 14, AR055: 14, AR052: 14, AR096: 12, AR104: 9, AR033: 8, AR060: 7, AR061: 6, AR039: 5 L0805: 11, L0777: 5, L0776: 4, L0438: 4, H0156: 2, H0318: 2, H0424: 2, S0464: 2, L0659: 2, S0434: 2, S0116: 1, H0661: 1, H0664: 1, S0442: 1, S0360: 1, H0733: 1, S0045: 1, S0046: 1, H0393: 1, H0587: 1, H0042: 1, H0618: 1, H0204: 1, H0565: 1, H0039: 1, H0165: 1, H0090: 1, H0038: 1, T0067: 1, H0647: 1, L0520: 1, L0646: 1, L0662: 1, L0651: 1, L0806: 1, L0658: 1, L5622: 1, L0787: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0658: 1, H0660: 1, S0380: 1, L0439: 1, L0747: 1, L0749: 1, L0753: 1, S0260: 1, S0436: 1 and L0584: 1.			74-91, 106-122
914	HDQFU07	878365	924	257 - 1156	2329	Lys-29 to Val-34, Cys-94 to Asp-99, Ser-102 to Val-107,	AR039: 25, AR096: 7, AR060: 5, AR033: 5, AR053: 4, AR052: 3,		1-27, 166- 183, 256- 272, 113-	

						Gln-133 to Lys-139.	AR089: 3, AR061: 2, AR104: 2, AR055: 1, S0422: 21, S0408: 9, L0659: 9, S0438: 8, S0354: 6, L0754: 6, S0126: 5, H0543: 5, S0358: 4, S0444: 4, S0406: 4, H0436: 4, L0740: 4, L0777: 4, S0360: 3, H0144: 3, S0374: 3, L0750: 3, L0599: 3, H0170: 2, H0717: 2, S0410: 2, H0587: 2, H0574: 2, H0486: 2, H0575: 2, H0036: 2, S0003: 2, H0622: 2, L0475: 2, H0509: 2, L0667: 2, L0771: 2, L0662: 2, L0766: 2, L0804: 2, L0790: 2, H0710: 2, L0748: 2, L0745: 2, L0749: 2, L0731: 2, S0026: 2, H0422: 2, H0171: 1, H0686: 1, S0040: 1, H0716: 1, L0785: 1, S0212: 1, S0442: 1, H0393: 1, L0717: 1, H0441: 1, H0497: 1, H0427: 1, H0590: 1, S0010: 1, S0346: 1, S0474: 1, H0581: 1, H0050: 1, H0239: 1, H0510: 1, H0266: 1, H0553: 1, H0169: 1, H0264: 1, H0494: 1, S0450:			129
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915	HETBV52	878370	925	25 - 450	2330	Gly-11 to Asp-17, Gly-23 to Asp-41, Met-108 to Gln-116.	1, S0440: 1, H0654: 1, H0652: 1, S0344: 1, H0529: 1, H0026: 1, L0371: 1, L0372: 1, L0764: 1, L0521: 1, L0768: 1, L0649: 1, L0652: 1, L0653: 1, L0809: 1, L0367: 1, L0663: 1, L0665: 1, S0428: 1, H0699: 1, H0547: 1, H0670: 1, H0660: 1, S0330: 1, S0378: 1, H0518: 1, H0521: 1, H0522: 1, S0028: 1, L0744: 1, L0439: 1, L0751: 1, S0031: 1, S0260: 1, L0581: 1, L0362: 1, H0136: 1, H0506: 1 and H0721: 1.	16q24.1	256850	82-102
							AR052: 9, AR033: 8, AR053: 8, AR055: 7, AR060: 6, AR104: 5, AR089: 5, AR096: 5, AR061: 4, AR039: 4 L0509: 18, L0500: 9, L0499: 6, L0493: 6, L0514: 6, L0777: 6, S0358: 4, L0438: 4, H0657: 3, L0794: 3, L0776: 3, L0439: 3, L0747: 3, L0758: 3, H0542: 3, H0716: 2, S0418: 2, L0021: 2, H0551: 2, L0435: 2, S0440: 2, L0763: 2,			

				L0662: 2, L0805: 2, L0508: 2, L0512: 2, L0513: 2, H0547: 2, S0028: 2, L0731: 2, L0605: 2, H0624: 1, H0717: 1, S0114: 1, H0650: 1, H0662: 1, S0420: 1, S0442: 1, S0354: 1, S0360: 1, S0410: 1, H0339: 1, S0222: 1, H0592: 1, H0486: 1, T0040: 1, H0156: 1, S0049: 1, H0597: 1, H0545: 1, H0046: 1, S0051: 1, H0416: 1, S0336: 1, H0428: 1, H0135: 1, H0040: 1, H0087: 1, H0413: 1, T0042: 1, H0494: 1, S0472: 1, S0210: 1, L0369: 1, L0507: 1, L0770: 1, L0638: 1, L0646: 1, L0643: 1, L0764: 1, L0521: 1, L0767: 1, L0768: 1, L0766: 1, L0498: 1, L0497: 1, L0774: 1, L0657: 1, L0659: 1, L0783: 1, L0787: 1, L0793: 1, S0126: 1, H0670: 1, H0660: 1, S0330: 1, S0152: 1, S0406: 1, H0187: 1, L0748: 1, L0754: 1, L0750: 1, L0779: 1, L0780: 1, L0759: 1, H0445: 1, H0423: 1,								
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916	HPHAB61	878406	926	35 - 853	2331	Arg-140 to Arg-145.	H0422: 1 and S0424: 1. AR055: 10, AR033: 8, AR060: 7, AR089: 5, AR052: 4, AR061: 4, AR104: 4, AR096: 4, AR053: 3, AR039: 2 L0439: 5, L0740: 4, L0777: 4, L0755: 4, L0794: 2, L0803: 2, L0438: 2, L0602: 2, L0752: 2, L0599: 2, H0583: 1, S0360: 1, L0471: 1, H0510: 1, H0032: 1, H0488: 1, H0413: 1, L0662: 1, L0804: 1, L0775: 1, L0805: 1, L0655: 1, L0809: 1, L0519: 1, S0148: 1, H0547: 1, L0747: 1, L0686: 1 and H0665: 1.	153-173, 248-270, 190-209, 100-121, 61-78, 211-228, 1-17
917	HTJN173	878407	927	59 - 1090	2332	Ile-37 to Ile-42, Asn-48 to Met-53, Cys-252 to Gly-258, Val-288 to Glu-293.	AR096: 1, AR033: 1, AR053: 1, AR089: 1, AR055: 0, AR060: 0, AR061: 0, AR039: 0, AR052: 0, AR104: 0 L0740: 19, L0748: 14, S0358: 6, L0754: 6, L0759: 5, S0354: 3, H0046: 3, S0344: 3, L0771: 3, L0666: 3, L0747: 3, H0393: 2, L0637: 2, L0775: 2, L0651:	1-17, 323- 341, 130- 146

918	HFCAI19	878432	928	564 - 109	2333	Asp-2 to His-10, Pro-136 to Glu-150.	2, L0438: 2, L0439: 2, L0756: 2, L0755: 2, H0170: 1, L0427: 1, S0356: 1, S0360: 1, S0408: 1, H0389: 1, H0549: 1, S0222: 1, H0643: 1, H0331: 1, H0574: 1, H0013: 1, H0156: 1, T0082: 1, S0474: 1, H0194: 1, L0738: 1, H0545: 1, H0150: 1, H0199: 1, H0014: 1, H0355: 1, S6028: 1, H0039: 1, L0455: 1, H0124: 1, H0316: 1, H0488: 1, H0059: 1, S0438: 1, S0144: 1, L0770: 1, L0769: 1, L0764: 1, L0662: 1, L0774: 1, L0805: 1, L0517: 1, L0783: 1, L0664: 1, H0144: 1, H0684: 1, H0672: 1, S0152: 1, H0521: 1, S0404: 1, H0555: 1, L0749: 1, L0786: 1, L0758: 1, H0445: 1, H0707: 1, L0599: 1, H0665: 1 and S0192: 1. AR053: 17, AR055: 14, AR096: 10, AR033: 9, AR060: 8, AR039: 8, AR052: 6, AR089: 6, AR104: 6, AR061: 5 L0747: 5, L0750: 5,				43-70, 76- 107, 103- 128, 22-38
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919	HEOMO40	878455	929	151 - 981	2334	Pro-34 to Pro-40, Pro-160 to Gln-167, Arg-185 to Gly-191, Glu-206 to His-211, Gln-231 to Thr-239.	L0748: 4, L0777: 4, S0344: 3, S0003: 2, L0769: 2, L0768: 2, L0775: 2, L0776: 2, H0659: 2, S0406: 2, L0751: 2, L0758: 2, H0159: 1, H0686: 1, H0294: 1, S0114: 1, H0636: 1, H0489: 1, S0007: 1, S0045: 1, H0619: 1, H0431: 1, L0251: 1, T0039: 1, T0114: 1, H0263: 1, H0327: 1, H0009: 1, H0012: 1, H0083: 1, H0039: 1, H0598: 1, H0038: 1, S0422: 1, L0770: 1, L0764: 1, L0766: 1, L0805: 1, L0512: 1, L0783: 1, L0382: 1, S0052: 1, S0428: 1, S0126: 1, H0648: 1, H0555: 1, L0749: 1, L0779: 1, L0752: 1, L0731: 1, L0757: 1, L0759: 1, H0445: 1, H0667: 1 and H0543: 1. AR033: 3, AR061: 3, AR060: 3, AR096: 2, AR089: 2, AR055: 1, AR052: 1, AR104: 0 H0457: 10, H0617: 6, H0181: 5, L0748: 5, L0783: 3, L0809: 3, L0777: 3, H0484: 2, H0486: 2, H0087:				127-143, 167-183
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920	HBGQR89	878462	930	95 - 592	2335	Ser-21 to Gly-27.	2, H0494: 2, L0648: 2, H0521: 2, L0751: 2, L0755: 2, H0265: 1, H0556: 1, H0717: 1, H0657: 1, H0306: 1, H0402: 1, S0408: 1, H0580: 1, H0619: 1, H0549: 1, H0559: 1, H0097: 1, H0390: 1, S0474: 1, H0545: 1, H0355: 1, H0428: 1, H0039: 1, H0033: 1, H0213: 1, H0124: 1, S0366: 1, H0163: 1, H0509: 1, L0763: 1, L0770: 1, L0772: 1, L0774: 1, L0775: 1, L0776: 1, L0438: 1, H0684: 1, S0328: 1, H0539: 1, H0522: 1, L0747: 1, L0731: 1, L0757: 1, H0668: 1 and H0543: 1.							105-144, 27-50, 84- 114, 46- 62, 146- 162
921	HSLHS40	878483	931	121 - 534	2336	Val-131 to Asn-136.	AR104: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0, AR039: 0, AR033: 0, AR053: 0, AR052: 0, AR096: 0 H0098: 1, H0617: 1, L0598: 1, L0367: 1 and S0260: 1. AR052: 10, AR033: 9, AR053: 7, AR096: 7,							31-52, 9- 32, 63-95,

AR055: 6, AR060: 6, AR104: 5, AR089: 5, AR039: 4, AR061: 3 L0754: 9, L0766: 4, L0803: 4, S0358: 3, H0622: 3, L0659: 3, H0547: 3, L0779: 3, L0777: 3, S0418: 2, S0022: 2, H0090: 2, S0344: 2, H0170: 1, H0686: 1, S6024: 1, H0662: 1, H0580: 1, H0486: 1, H0013: 1, H0575: 1, H0581: 1, T0115: 1, T0110: 1, H0570: 1, H0051: 1, S0388: 1, S0003: 1, H0615: 1, H0628: 1, H0135: 1, H0040: 1, H0623: 1, T0069: 1, H0633: 1, S0208: 1, L0763: 1, L0770: 1, L0649: 1, L0375: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0606: 1, L0663: 1, L0665: 1, S0374: 1, L0565: 1, H0520: 1, H0519: 1, H0689: 1, H0666: 1, H0521: 1, S3012: 1, S0028: 1, L0740: 1, L0756: 1, L0780: 1, L0755: 1, L0731: 1, H0543: 1, H0423: 1, S0412: 1 and H0352: 1						91-109, 111-127
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922	HDPFT14	878510	932	84 - 554	2337	Gly-11 to Glu-16, Cys-52 to His-59, Val-67 to Gln-72.	AR039: 3, AR096: 3, AR052: 3, AR053: 3, AR104: 2, AR060: 2, AR089: 2, AR055: 2, AR033: 2, AR061: 1 H0521: 4, L0803: 3, L0439: 3, S0046: 2, H0488: 2, L0747: 2, L0758: 2, L0759: 2, H0556: 1, H0685: 1, H0657: 1, S0418: 1, S0360: 1, H0632: 1, H0486: 1, L0021: 1, H0618: 1, S0474: 1, H0421: 1, H0457: 1, H0014: 1, H0266: 1, H0622: 1, T0041: 1, H0561: 1, L0770: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0662: 1, L0794: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, H0520: 1, H0659: 1, H0672: 1, H0539: 1, L0740: 1, L0750: 1, L0779: 1, L0777: 1, L0752: 1, L0599: 1, L0603: 1, S0026: 1, H0543: 1 and H0422: 1.			107-135, 73-94
923	HNHFY67	878569	933	660 - 178	2338	Arg-58 to Glu-64, Glu-72 to Lys-77, Glu-149 to Met-156.	AR053: 1, AR055: 1, AR089: 1, AR104: 1, AR033: 1, AR096: 1, AR061: 1, AR060: 0,			113-133, 19-35

								AR052: 0 S0001: 7, S0028: 6, S0278: 2, H0575: 2, S0050: 2, H0271: 2, S0053: 2, S0031: 2, S0260: 2, L0593: 2, H0381: 1, H0419: 1, S0180: 1, S0282: 1, S0045: 1, L0476: 1, H0416: 1, H0313: 1, H0068: 1, S0036: 1, S0052: 1, S0428: 1, S0216: 1, S0146: 1, S0390: 1, L0592: 1 and L0603: 1.				
924	HWLLR80	878628	934	52 - 1098	2339	Glu-27 to Gly-33, Pro-87 to Gly-94, Gly-110 to Leu-115, Asn-129 to Asp-134, Asn-148 to Glu-153, Ala-209 to Asp-215, Ser-241 to Ser-251.		AR096: 4, AR089: 3, AR055: 2, AR053: 2, AR060: 2, AR039: 2, AR033: 2, AR052: 2, AR061: 1, AR104: 1 S0358: 1, H0370: 1, H0253: 1, H0547: 1, H0521: 1, L0601: 1 and S0196: 1.				283-306, 36-52
925	HLVAG35	878700	935	71 - 787	2340	Ala-24 to Asp-31.		AR039: 15, AR096: 8, AR060: 7, AR053: 6, AR089: 6, AR033: 6, AR052: 4, AR055: 3, AR104: 3, AR061: 2 H0046: 1 and H0445: 1.				92-121, 188-206
926	HDPLU91	878742	936	106 - 930	2341	Pro-18 to Val-23, Pro-50 to Ser-60, Gln-97 to Gly-103.		AR089: 13, AR053: 12, AR104: 9, AR052: 9, AR096: 7, AR033: 7,				30-52, 62- 80, 206- 222, 228-

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927	HTFNS65	878748	937	190 - 750	2342	Thr-15 to His-21, Gly-30 to Lys-39, Arg-113 to Met-118, Arg-178 to Ala-187.	1, S0392: 1, L0742: 1, L0749: 1, L0756: 1, L0777: 1, L0731: 1, L0757: 1, L0759: 1, L0588: 1, L0589: 1, L0590: 1, L0592: 1, L0595: 1 and H0543: 1. AR053: 1, AR033: 1, AR089: 1, AR104: 1, AR060: 0, AR039: 0, AR061: 0, AR055: 0, AR052: 0, AR096: 0 L0777: 8, H0159: 3, S0408: 3, H0619: 3, L0770: 3, L0766: 3, L0783: 3, H0657: 2, H0617: 2, L0754: 2, L0747: 2, L0755: 2, L0731: 2, L0758: 2, H0265: 1, H0685: 1, S0134: 1, S0212: 1, H0663: 1, H0306: 1, H0402: 1, H0638: 1, S0444: 1, H0580: 1, S0046: 1, L0394: 1, H0431: 1, S0280: 1, H0052: 1, H0046: 1, H0081: 1, H0012: 1, S0036: 1, H0038: 1, H0412: 1, H0695: 1, L0769: 1, L0638: 1, L0764: 1, L0662: 1, L0774: 1, L0775: 1, L0375: 1, L0379: 1, L0438: 1, H0648: 1, S0028: 1,					133-158
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928	HDABG90	878755	938	43 - 1284	2343	Tyr-4 to Gln-9, Asp-49 to Lys-54.	L0748: 1, L0751: 1, L0779: 1, L0752: 1, L0592: 1 and S0424: 1. AR096: 2, AR033: 1, AR053: 1, AR089: 1, AR052: 1, AR039: 1, AR061: 1, AR060: 1, AR055: 1, AR104: 0 H0616: 2, H0497: 1 and H0618: 1.				226-264, 106-132, 139-171, 313-343, 178-201, 286-302, 217-234
929	HDPQO40	878790	939	106 - 726	2344	Pro-28 to Arg-35, Ser-51 to Pro-56, Pro-201 to Ser-207.	AR053: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR033: 2, AR060: 2, AR061: 1, AR104: 1, AR039: 0 H0486: 3, L0766: 3, L0777: 3, S0002: 2, S0426: 2, L0743: 2, L0779: 2, L0759: 2, S0474: 1, H0673: 1, H0674: 1, H0477: 1, L0805: 1, L0659: 1, L0790: 1, H0522: 1, H0478: 1, H0445: 1 and H0543: 1.				157-173, 88-104, 13-29
930	HKAHL37	878823	940	12 - 698	2345	Gln-12 to Phe-25, Ala-82 to His-93, His-212 to Ala-217.	AR033: 5, AR061: 4, AR089: 3, AR052: 3, AR053: 2, AR055: 2, AR096: 2, AR060: 1, AR104: 1, AR039: 0 L0758: 12, H0617: 9,				21-46, 185-205, 50-74, 125-142, 106-122

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931	HBXAX11	878833	941	79 - 1239	2346	Met-1 to Tyr-11, Ser-190 to Thr-195, Pro-223 to Ser-229.	L0775: 1, L0807: 1, L0383: 1, L0528: 1, L0788: 1, H0520: 1, H0593: 1, H0684: 1, S0380: 1, H0521: 1, H0522: 1, H0696: 1, S0406: 1, H0555: 1, H0436: 1, L0754: 1, L0750: 1, L0777: 1, L0588: 1, H0543: 1, L0698: 1 and S0424: 1. AR033: 4, AR096: 3, AR061: 2, AR052: 2, AR053: 2, AR089: 1, AR060: 1, AR055: 1, AR104: 1, AR039: 0 L0809: 7, L0769: 4, L0761: 4, L0751: 4, L5565: 2, L0764: 2, L0766: 2, L0665: 2, L0747: 2, L0605: 2, H0657: 1, H0188: 1, S0038: 1, H0625: 1, L0646: 1, L0643: 1, L0645: 1, L0648: 1, L0768: 1, L0794: 1, L0649: 1, L0651: 1, L0655: 1, L0659: 1, L0382: 1, L0647: 1, L0666: 1, H0547: 1, H0519: 1, L0779: 1, L0752: 1, L0731: 1, L0757: 1, L0758: 1 and L0587: 1.					125-143, 145-161, 70-86
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932	HMVBC71	878904	942	175 - 744	2347	Pro-45 to Thr-52, Pro-57 to Gly-69, Pro-76 to Asn-86, Glu-92 to Gly-98, Asn-114 to Thr-121, Arg-147 to Arg-155, Pro-170 to Thr-181.	AR033: 6, AR104: 4, AR096: 4, AR089: 3, AR053: 2, AR060: 2, AR055: 2, AR052: 2, AR039: 2, AR061: 1 S0330: 3, S0046: 2, H0494: 2, L0065: 2, L0666: 2, H0670: 2, L0439: 2, H0624: 1, H0686: 1, H0295: 1, S0212: 1, S0442: 1, H0735: 1, H0549: 1, H0392: 1, H0559: 1, H0052: 1, H0597: 1, H0327: 1, H0009: 1, H0024: 1, S0050: 1, S0051: 1, H0428: 1, S0150: 1, H0641: 1, L0637: 1, L0662: 1, L0794: 1, L0649: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0659: 1, L0526: 1, L0663: 1, L0665: 1, H0593: 1, H0690: 1, S0328: 1, H0696: 1, H0555: 1, S0037: 1, S0028: 1, L0756: 1, L0759: 1, S0434: 1 and S0276: 1.				122-145, 2-34
933	HHFML06	878912	943	140 - 559	2348	Lys-36 to Lys-41, Val-133 to Asn-140.	AR055: 9, AR089: 6, AR052: 6, AR033: 6, AR060: 5, AR061: 5, AR096: 5, AR053: 4, AR104: 4, AR039: 1	14q24.3	104311, 109150, 182600, 245200, 601208	101-127, 3-20, 52- 68, 80-96	

934	HEEAG84	878975	944	181 - 645	2349	Lys-13 to Thr-19.	AR096: 12, AR060: 10, AR055: 8, AR053: 8, AR104: 7, AR089: 7, AR052: 6, AR033: 5, AR039: 5, AR061: 4 H0549: 1 and H0538: 1.				33-51
935	HE8PT01	878979	945	1519 - 1929	2350	Met-113 to Arg-118.	AR039: 29, AR033: 19, AR104: 18, AR055: 18, AR053: 16, AR089: 13, AR052: 13, AR096: 13, AR060: 12, AR061: 12 L0747: 4, L0777: 4, S0222: 2, L0471: 2, L0455: 2, L0803: 2, L0790: 2, L0742: 2, L0748: 2, L0439: 2, L0753: 2, L0759: 2, L0717: 1, H0013: 1, H0575: 1, S0010: 1, H0350: 1, T0006: 1, L0770: 1, L0764: 1, L0794: 1, L0784: 1, L0806: 1, L0805: 1, S0052: 1, H0144: 1, L0438: 1, H0689: 1, L0749: 1, L0758: 1, H0445: 1 and L0599: 1.				91-109, 121-137
936	HMVCG79	879020	946	38 - 853	2351	Thr-28 to Arg-34, Leu-47 to Ser-53.	AR089: 6, AR060: 5, AR033: 4, AR104: 4, AR096: 3, AR039: 3, AR052: 3, AR053: 3,	6q14-q15	136550, 203310, 269920, 602772	141-165, 233-255, 3-25, 56- 72, 166-	

937	HSLJF33	879040	947	18 - 521	2352	Glu-65 to Gly-71.	AR061: 2, AR055: 1 S0002: 4, S0206: 4, L0748: 2, L0740: 2, L0777: 2, S0212: 1, H0661: 1, S0278: 1, H0370: 1, H0123: 1, S0142: 1, L0800: 1, L0790: 1, H0539: 1, H0555: 1, S0314: 1, S0028: 1, L0754: 1 and L0759: 1.				183, 104- 120, 199- 215
							AR096: 2, AR039: 2, AR053: 1, AR052: 1, AR061: 1, AR089: 1, AR055: 0, AR033: 0, AR060: 0, AR104: 0 S0390: 1				97-126, 14-39, 43- 63, 125- 141
938	HFKJI43	879115	948	60 - 377	2353		AR033: 33, AR104: 32, AR055: 22, AR039: 20, AR053: 16, AR089: 16, AR096: 13, AR060: 13, AR052: 12, AR061: 8 L0747: 17, S0442: 15, L0665: 13, S0358: 11, S0444: 11, S0408: 10, S0374: 10, H0597: 7, H0620: 6, L0375: 6, L0518: 5, H0539: 5, L0750: 5, H0135: 4, L0764: 4, L0776: 4, H0144: 4, L0751: 4, H0352: 4, H0170: 3, S0376:				52-82

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939	HFVHV40	879156	949	104 - 808	2354	Tyr-122 to Asp-127, Glu-138 to Pro-150, Arg-160 to Asn-169.	1, H0553: 1, H0644: 1, H0321: 1, H0100: 1, L0351: 1, H0494: 1, H0560: 1, S0372: 1, S0440: 1, L0637: 1, L5575: 1, L0761: 1, L0643: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0650: 1, L0774: 1, L0654: 1, L0636: 1, L0809: 1, L0647: 1, L0792: 1, H0702: 1, H0520: 1, H0519: 1, H0690: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, S0174: 1, S0146: 1, S0406: 1, H0555: 1, S0027: 1, L0745: 1, L0779: 1, L0777: 1, L0753: 1, L0758: 1, L0759: 1, S0436: 1, L0601: 1, L0603: 1, S0106: 1, H0668: 1, S0026: 1 and S0412: 1.				74-91, 170-186, 1-17
							AR033: 6, AR055: 6, AR053: 5, AR096: 5, AR052: 5, AR104: 4, AR061: 4, AR060: 4, AR039: 3, AR089: 3 L0758: 16, L0748: 10, H0620: 7, L0731: 6, H0246: 5, S0007: 4, H0253: 4, L0769: 4, L0754: 4, H0052:				

				3, H0100: 3, L0638: 3, L0766: 3, L0774: 3, S0152: 3, S3014: 3, L0439: 3, H0265: 2, H0556: 2, T0002: 2, S6024: 2, H0656: 2, H0341: 2, S0212: 2, S0376: 2, H0619: 2, H0261: 2, S0222: 2, H0318: 2, H0012: 2, T0010: 2, H0068: 2, H0551: 2, H0413: 2, H0494: 2, L0770: 2, L0768: 2, L0650: 2, L0776: 2, S3012: 2, L0741: 2, L0749: 2, L0750: 2, L0759: 2, L0608: 2, L0595: 2, H0352: 2, S0040: 1, L0760: 1, S0116: 1, S0282: 1, H0638: 1, S0418: 1, S0356: 1, H0393: 1, H0549: 1, H0550: 1, H0592: 1, H0333: 1, H0486: 1, T0114: 1, H0250: 1, H0069: 1, S0280: 1, H0156: 1, H0599: 1, H0575: 1, H0036: 1, H0618: 1, H0597: 1, H0178: 1, N0006: 1, H0563: 1, H0197: 1, H0199: 1, H0051: 1, H0083: 1, H0060: 1, H0188: 1, H0290: 1, H0284: 1, H0428: 1, H0622: 1, L0483: 1, H0124:							
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940	HTXLR12	879160	950	714 - 2069	2355	Tyr-48 to Asn-54.	1, H0135: 1, H0163: 1, H0040: 1, H0264: 1, H0412: 1, L0564: 1, H0130: 1, H0641: 1, S0144: 1, S0002: 1, L0763: 1, L0761: 1, L0372: 1, L0643: 1, L0764: 1, L0771: 1, L0648: 1, L0767: 1, L0803: 1, L0804: 1, L0375: 1, L0378: 1, L0659: 1, L0544: 1, L0665: 1, H0703: 1, L0352: 1, H0670: 1, S0328: 1, S0330: 1, H0134: 1, H0436: 1, S0027: 1, L0747: 1, L0756: 1, L0777: 1, L0753: 1, S0260: 1, H0445: 1, L0597: 1, H0653: 1 and S0194: 1.				425-451, 415-431
941	HDQEX68	879167	951	10 - 1470	2356	Asp-4 to Glu-9, Ala-44 to Glu-62,	AR052: 4, AR055: 4, AR039: 3, AR060: 3, AR096: 3, AR033: 3, AR053: 2, AR089: 2, AR061: 2, AR104: 2 H0038: 2, H0265: 1, H0556: 1, S0134: 1, H0645: 1, S0222: 1, L0455: 1, S0328: 1, S0028: 1, L0591: 1 and S0194: 1.	4			371-388, 295-311,

Leu-113 to Gln-120, Asp-131 to Glu-137, Lys-187 to Glu-194, Glu-315 to Arg-321, Gln-433 to Ser-439, Lys-446 to Pro-451, Lys-463 to Ser-470.	AR089: 3, AR060: 2, AR104: 2, AR061: 2, AR039: 2, AR055: 1 S0192: 11, L0731: 10, L0754: 8, L0439: 5, S0022: 4, H0551: 4, L0747: 4, H0046: 3, S0003: 3, H0031: 3, H0616: 3, L0771: 3, L0766: 3, L0666: 3, H0521: 3, L0759: 3, S0212: 2, H0575: 2, H0251: 2, H0596: 2, H0050: 2, L0471: 2, H0024: 2, H0328: 2, H0111: 2, L0803: 2, L0804: 2, L0659: 2, S0374: 2, L0438: 2, S0126: 2, S0028: 2, L0740: 2, S0040: 1, T0049: 1, H0650: 1, S0358: 1, H0580: 1, S0046: 1, H0640: 1, S0300: 1, H0574: 1, H0632: 1, H0270: 1, H0013: 1, H0156: 1, H0545: 1, H0051: 1, H0355: 1, H0510: 1, S0214: 1, H0615: 1, H0644: 1, L0055: 1, H0163: 1, H0090: 1, H0038: 1, H0059: 1, H0494: 1, H0509: 1, H0633: 1, S0344: 1, S0210: 1, S0002: 1, L0369: 1, L0646: 1, L0521: 1.	88-104
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942	HTPHG81	879182	952	198 - 1127	2357	Pro-9 to Glu-16, Ser-25 to Asp-31, Glu-55 to Glu-61, Met-87 to Gly-104, Cys-151 to Tyr-157, Arg-222 to Gln-231, Val-275 to Pro-284.	L0662: 1, L0794: 1, L0774: 1, L0806: 1, L0805: 1, L0809: 1, L0367: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0519: 1, H0670: 1, H0696: 1, S0406: 1, S0027: 1, L0751: 1, L0749: 1, L0750: 1, L0757: 1, L0480: 1, L0608: 1, S0011: 1, S0026: 1, S0242: 1, S0196: 1 and S0424: 1.					239-255, 114-130, 203-219
943	HETFJ66	879189	953	82 - 1503	2358	Pro-12 to Val-29, Glu-35 to Arg-40, Arg-46 to Ile-52, Tyr-88 to Ser-97, Gly-112 to Cys-117.	AR039: 19, AR053: 13, AR096: 9, AR052: 9, AR055: 9, AR033: 9, AR089: 8, AR104: 7, AR060: 7, AR061: 6 H0553: 2, S0282: 1, S0049: 1, H0052: 1, H0622: 1, H0040: 1 and S0406: 1. AR055: 5, AR052: 4, AR053: 3, AR061: 3, AR060: 3, AR033: 2, AR089: 2, AR096: 1, AR104: 0, AR039: 0 L0794: 24, H0046: 20, L0747: 5, L0748: 4, L0749: 4, H0013: 3, H0624: 2, H0553: 2, H0090: 2, L0761: 2, L0800: 2, L0767: 2,					195-211, 115-131

944	HUVCMS8	879222	954	116 - 1750	2359	Arg-34 to Glu-41, Met-74 to Thr-80, Glu-124 to Lys-133, Pro-166 to Val-177, Arg-234 to Val-244, Ile-251 to Arg-259, Leu-261 to Leu-269, Gln-271 to Arg-284, Lys-399 to Pro-407, Ile-449 to Ser-458, Lys-464 to Gln-474.	L0805: 2, L0791: 2, L0666: 2, L0438: 2, L0754: 2, L0755: 2, H0171: 1, H0265: 1, H0657: 1, H0656: 1, H0663: 1, H0580: 1, H0645: 1, S6014: 1, H0050: 1, H0428: 1, T0006: 1, L0456: 1, H0591: 1, H0040: 1, H0087: 1, H0100: 1, T0042: 1, L5566: 1, L0764: 1, L0776: 1, L0792: 1, L4501: 1, H0144: 1, H0547: 1, S0406: 1, L0439: 1, L0740: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0752: 1, L0759: 1 and L0600: 1. AR089: 9, AR096: 8, AR033: 8, AR052: 7, AR053: 7, AR060: 5, AR061: 3, AR055: 3, AR104: 0 L0752: 8, L0766: 6, S0444: 5, L0770: 5, L0439: 5, L0731: 5, S0360: 3, H0031: 3, L0803: 3, S0126: 3, L0755: 3, L0758: 3, S0358: 2, H0722: 2, H0090: 2, H0056: 2, L0805: 2, L0659: 2, L0666: 2, L0665: 2, H0519: 2, S0330: 2,				297-331, 138-166, 4-35, 404- 431, 41- 73, 360- 385, 99- 123, 494- 516, 188- 210, 339- 355
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945	HDPGJ03	879294	955	475 - 32	2360	Asp-25 to Gln-32, Asn-40 to Lys-46, Trp-54 to Asn-62.	1, S0011: 1, S0026: 1, S0192: 1, S0196: 1, H0423: 1 and S0424: 1. AR104: 2, AR096: 2, AR052: 1, AR039: 1, AR055: 1, AR033: 1, AR060: 1, AR061: 1, AR089: 0, AR053: 0 S0278: 5, S0144: 5, S0002: 4, H0521: 4, S0003: 3, S0344: 3, H0575: 1, H0364: 1, S0214: 1, H0068: 1, H0591: 1, L0806: 1, L0805: 1 and L0776: 1.				60-87	
946	HUSIT07	879441	956	111 - 902	2361	Arg-24 to Arg-29, Arg-144 to Asn-151.	AR053: 10, AR033: 10, AR052: 9, AR089: 9, AR055: 8, AR060: 5, AR061: 4, AR039: 3, AR096: 2, AR104: 0 H0435: 3, S0476: 2, H0590: 2, L0758: 2, H0656: 1, H0484: 1, H0729: 1, S0046: 1, H0393: 1, H0632: 1, H0013: 1, S0474: 1, S0049: 1, H0074: 1, L0455: 1, H0598: 1, H0412: 1, L0648: 1, L0649: 1, L0527: 1, L0657: 1, L0659: 1, L0530: 1, H0539: 1, H0521:				1-22, 172- 195, 214- 241, 89- 122, 82- 98, 150- 166	

947	HWHHNS 5	879514	957	114 - 1013	2362	Gly-14 to Lys-22.	1 and S0032: 1. AR039: 19, AR096: 9, AR104: 8, AR033: 8, AR053: 8, AR052: 7, AR089: 6, AR055: 5, AR060: 5, AR061: 4 S0348: 1, S0418: 1, H0592: 1 and H0586: 1.			215-231
948	HTTJH57	879541	958	15 - 839	2363	Pro-8 to Ser-14, Leu-16 to Gly-25, Gly-33 to Gly-38, Glu-43 to Glu-51.	AR052: 5, AR055: 5, AR060: 3, AR039: 3, AR061: 3, AR089: 2, AR033: 2, AR096: 2, AR053: 1, AR104: 1 H0052: 1, H0286: 1, H0634: 1 and L0771: 1.			238-255
949	HMSND53	879589	959	22 - 1947	2364	Lys-37 to Lys-47, Thr-87 to Lys-93, Gly-100 to Val-105, Gln-111 to Thr-128, Pro-155 to Asp-173, Gln-177 to Gln-184, Glu-202 to Leu-216, Asn-272 to Asp-277, Asp-289 to His-297, Gly-395 to Phe-402, His-435 to Ala-440, Asp-489 to Glu-498, Arg-581 to Gln-586, Thr-611 to Arg-616.	AR060: 2, AR096: 2, AR089: 2, AR033: 2, AR053: 2, AR061: 1, AR052: 1, AR055: 1, AR104: 1 L0439: 9, L0471: 3, H0591: 2, H0547: 2, H0624: 1, H0170: 1, S0430: 1, H0656: 1, S0110: 1, S0420: 1, S0376: 1, T0114: 1, H0427: 1, H0071: 1, H0275: 1, T0010: 1, S6028: 1, H0266: 1, H0428: 1, H0031: 1, H0090: 1, H0038: 1,			254-270, 357-373, 595-611, 541-557

950	HMSNQ62	879610	960	149 - 1783	2365	Glu-624 to Cys-636.	H0040: 1, H0551: 1, S0014: 1, H0646: 1, S0426: 1, H0529: 1, L0766: 1, H0520: 1, S0126: 1, H0689: 1, H0518: 1, L0754: 1, L0485: 1 and H0423: 1. AR055: 5, AR060: 4, AR096: 4, AR039: 3, AR053: 3, AR052: 3, AR033: 3, AR061: 3, AR089: 3, AR104: 2, H0457: 4, L0754: 4, L0803: 3, L0439: 3, H0575: 2, H0617: 2, L0662: 2, L0804: 2, L0805: 2, L0750: 2, L0731: 2, H0656: 1, H0484: 1, H0255: 1, H0663: 1, L0717: 1, H0549: 1, S0222: 1, H0602: 1, H0486: 1, H0013: 1, H0581: 1, H0251: 1, H0046: 1, H0150: 1, H0428: 1, H0553: 1, H0040: 1, H0063: 1, H0264: 1, H0623: 1, S0002: 1, S0426: 1, L0762: 1, L0763: 1, L0769: 1, L0766: 1, L0774: 1, L0787: 1, L0666: 1, L0663: 1, L0665: 1, L0565: 1, H0689: 1, H0658: 1, H0670: 1, S0136: 1.	109-125, 523-539
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951	HGBHG78	879611	961	175 - 582	2366	Arg-63 to Thr-73, Pro-85 to Ser-92.	H0521: 1, L0748: 1, L0747: 1, L0752: 1 and H0423: 1. AR055: 15, AR053: 11, AR052: 10, AR089: 8, AR033: 8, AR060: 8, AR096: 7, AR061: 6, AR104: 6, AR039: 4 H0014: 1 and L0752: 1.	22q13.31	250100, 250800, 250800	40-57, 22- 38	
952	HTLHJ08	879620	962	59 - 967	2367	His-204 to Pro-209.	AR039: 44, AR055: 30, AR053: 22, AR033: 21, AR089: 19, AR060: 19, AR052: 18, AR096: 17, AR104: 16, AR061: 14 H0107: 2, L0758: 2, H0618: 1, H0154: 1, H0553: 1, H0038: 1 and H0616: 1.			70-98, 101-125, 169-190, 138-154	
953	HSIDI48	879670	963	60 - 923	2368	His-102 to Gln-108, Asp-251 to Tyr-263, Gly-274 to Lys-288.	AR089: 17, AR052: 12, AR096: 9, AR039: 9, AR060: 8, AR104: 7, AR053: 6, AR033: 5, AR061: 5, AR055: 3 L0439: 17, L0777: 7, L0766: 6, L0740: 6, L0758: 5, L0483: 4, L0592: 4, H0178: 3, L0794: 3, S0358: 2, H0036: 2, H0039: 2, H0622: 2, H0644: 2, L0804: 2, L0775: 2, L0805: 2, L0438: 2, L0352: 2, H0670:			171-199, 78-97, 230-249, 33-50, 113-129, 215-231, 155-171, 15-31	

954	HRDDU37	879672	964	15 - 611	2369	Leu-21 to Lys-29, Gly-39 to Pro-51, Arg-68 to Lys-73, Val-91 to Pro-97, Glu-113 to Arg-120, Val-122 to Gly-131.	2, L0754: 2, L0785: 1, S0212: 1, H0664: 1, L0005: 1, S0356: 1, S0354: 1, H0329: 1, S0007: 1, S0046: 1, H0632: 1, H0486: 1, H0590: 1, S0010: 1, H0581: 1, S0049: 1, H0052: 1, L0471: 1, H0328: 1, T0023: 1, H0553: 1, H0181: 1, H0673: 1, H0674: 1, H0090: 1, H0059: 1, L0598: 1, L0769: 1, L0638: 1, L0761: 1, L0771: 1, L0803: 1, L0776: 1, L0659: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1, S0374: 1, H0520: 1, H0658: 1, S0328: 1, S0330: 1, S0152: 1, H0696: 1, S0404: 1, H0631: 1, S0028: 1, L0743: 1, L0750: 1, L0731: 1, H0444: 1, L0366: 1, S0026: 1, S0424: 1 and H0506: 1.				141-162
						AR033: 4, AR055: 3, AR061: 2, AR060: 2, AR096: 2, AR089: 2, AR052: 2, AR039: 1, AR053: 1, AR104: 0 L0439: 11, L0750: 5, L0766: 4 L0803: 4 H0519:					

955	HFLLUII9	879691	965	1084 - 2682	2370	Glu-26 to Lys-33, His-45 to Asn-50, Asp-149 to Tyr-154, Asn-175 to Asp-181, Gly-268 to Gln-275, Leu-375 to Asp-383, Thr-441 to Gly-456,	4, L0752: 4, S0438: 3, H0521: 3, L0747: 3, H0265: 2, H0638: 2, H0046: 2, L0805: 2, L0791: 2, L0438: 2, L0743: 2, L0748: 2, L0780: 2, L0731: 2, H0716: 1, L0002: 1, H0341: 1, S0212: 1, H0305: 1, H0589: 1, S0444: 1, T0039: 1, H0427: 1, T0110: 1, H0545: 1, H0375: 1, H0124: 1, H0090: 1, H0616: 1, H0202: 1, T0041: 1, H0647: 1, S0344: 1, S0422: 1, H0529: 1, L0371: 1, L0764: 1, L0804: 1, L0659: 1, L0783: 1, L0809: 1, L0663: 1, S0126: 1, H0648: 1, H0672: 1, S0152: 1, S0028: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, S0434: 1, H0506: 1 and H0008: 1.				404-420, 286-302, 195-211
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956	HTWAG66	879698	966	354 - 803	2371		Thr-499 to Arg-504.	1, S0278: 1, H0318: 1, H0199: 1, S0050: 1, S0051: 1, H0181: 1, S0036: 1, H0264: 1, S0144: 1, S0044: 1 and S0027: 1. AR055: 11, AR060: 9, AR061: 9, AR033: 7, AR052: 6, AR053: 6, AR096: 6, AR089: 5, AR104: 5, AR039: 4 H0306: 1, H0637: 1, H0187: 1 and S0106: 1.			76-98
957	HLCLE14	879732	967	14 - 424	2372	His-34 to Tyr-39, Pro-113 to Glu-119.	AR033: 7, AR055: 7, AR060: 5, AR096: 5, AR052: 5, AR104: 4, AR089: 4, AR053: 4, AR061: 4, AR039: 2 L0751: 16, H0617: 14, L0766: 13, L0731: 9, L0743: 8, H0253: 7, H0052: 7, L0769: 6, H0521: 6, L0742: 6, L0759: 6, H0587: 5, H0618: 5, L0763: 5, L0764: 5, L0744: 5, L0758: 5, H0039: 3, S0210: 3, L0800: 3, L0662: 3, L0794: 3, L0659: 3, L0666: 3, L0747: 3, L0753: 3, L0757: 3, H0483: 2, H0494: 2.			119-137	

958	HOFMH52	879744	968	307 - 777	2373	Arg-106 to Pro-115, Asn-134 to Lys-139, Pro-144 to Asp-151.	S0350: 1, S0188: 1, H0555: 1, H0436: 1, S0390: 1, S3014: 1, S0027: 1, L0780: 1, L0592: 1, L0361: 1, H0668: 1, H0653: 1, S0192: 1, H0542: 1, H0423: 1, S0424: 1, S0456: 1 and H0352: 1. AR039: 12, AR104: 6, AR096: 5, AR033: 5, AR053: 5, AR052: 4, AR089: 4, AR060: 4, AR055: 3, AR061: 2 L0748: 7, L0766: 5, H0040: 3, L0747: 3, L0777: 3, L0755: 3, H0657: 2, H0486: 2, H0596: 2, S0372: 2, L0803: 2, S0126: 2, L0740: 2, L0754: 2, L0749: 2, L0758: 2, S0026: 2, H0170: 1, H0265: 1, H0125: 1, S0358: 1, S0410: 1, S0007: 1, L0717: 1, H0431: 1, H0415: 1, H0333: 1, H0642: 1, T0060: 1, H0156: 1, H0599: 1, H0530: 1, H0081: 1, H0050: 1, L0471: 1, H0239: 1, H0510: 1, H0266: 1, H0179: 1, H0068: 1, H0163: 1, H0087: 1,					46-64, 27- 43
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959	HWAHE17	879774	969	229 - 633	2374	Pro-80 to Lys-86, Thr-92 to Gln-106.	AR096: 3, AR055: 1, AR033: 1, AR060: 1, AR104: 1, AR061: 1, AR089: 0, AR052: 0 S0354: 1, H0581: 1, L0770: 1, L0752: 1 and L0759: 1.	S0438: 1, L0598: 1, L0500: 1, L0761: 1, L0764: 1, L0805: 1, L0655: 1, L0789: 1, L0663: 1, L0665: 1, H0648: 1, H0215: 1, S0406: 1, L0756: 1, L0759: 1 and H0542: 1.				14-45, 53- 70, 35-51
960	HWAEG32	879900	970	27 - 530	2375	Leu-70 to Glu-75, Arg-131 to Ser-138.	AR039: 150, AR096: 20, AR053: 19, AR055: 11, AR089: 8, AR052: 4, AR033: 3, AR060: 2, AR061: 2, AR104: 1 S6026: 1, S0222: 1, H0191: 1, H0581: 1, H0544: 1 and H0598: 1.	AR039: 150, AR096: 20, AR053: 19, AR055: 11, AR089: 8, AR052: 4, AR033: 3, AR060: 2, AR061: 2, AR104: 1 S6026: 1, S0222: 1, H0191: 1, H0581: 1, H0544: 1 and H0598: 1.				1-32, 48- 66, 78-94
961	HSLHB42	879927	971	479 - 886	2376		AR039: 5, AR033: 1, AR089: 1, AR096: 1, AR060: 1, AR055: 1, AR061: 1, AR053: 1, AR104: 1, AR052: 0 L0439: 9, L0777: 4, S0212: 3, L0794: 3, L0766:	AR039: 5, AR033: 1, AR089: 1, AR096: 1, AR060: 1, AR055: 1, AR061: 1, AR053: 1, AR104: 1, AR052: 0 L0439: 9, L0777: 4, S0212: 3, L0794: 3, L0766:				41-57, 17- 33, 77-93

962	HDSAC28	879957	972	72 - 425	2377	Pro-27 to Leu-34, Ser-41 to His-54, Ala-81 to Ser-90.	3, S0028: 3, L0754: 3, S0222: 2, H0591: 2, L0374: 2, L0803: 2, L0809: 2, H0521: 2, L0752: 2, L0731: 2, H0171: 1, H0713: 1, H0638: 1, S0444: 1, S0410: 1, L0021: 1, H0706: 1, H0545: 1, H0562: 1, H0051: 1, H0188: 1, H0553: 1, L0142: 1, H0090: 1, H0551: 1, L0351: 1, H0561: 1, L0763: 1, L0769: 1, L0761: 1, L0771: 1, L0662: 1, L0768: 1, L0804: 1, L0774: 1, L0806: 1, H0144: 1, S0122: 1, H0659: 1, H0522: 1, S0044: 1, H0626: 1, L0744: 1, L0747: 1, L0756: 1, L0755: 1, S0260: 1, S0436: 1, S0242: 1 and H0542: 1.					99-115, 64-80
							AR096: 8, AR089: 7, AR055: 7, AR060: 6, AR039: 6, AR033: 5, AR052: 5, AR053: 4, AR104: 4, AR061: 4 H0052: 2, H0255: 1, H0662: 1, H0329: 1, L0789: 1, H0690: 1 and L0747: 1.					

963	HFIHT27	879972	973	47 - 1873	2378	Pro-23 to Ser-30, Lys-64 to Gly-69, Arg-110 to Glu-117, Asp-218 to Lys-223, Lys-243 to Gly-249, Ala-448 to Glu-453, Asp-479 to Gln-485, Asn-504 to Ser-510, Pro-547 to Gln-557.	AR052: 3, AR096: 3, AR039: 2, AR061: 2, AR055: 2, AR053: 1, AR089: 1, AR033: 1, AR060: 1, AR104: 1 S0358: 1, H0580: 1, T0039: 1, H0519: 1, S0194: 1 and H0543: 1.			399-415, 335-351, 6-22, 45- 61
964	HBIMS61	879980	974	318 - 704	2379		AR039: 30, AR053: 23, AR096: 20, AR033: 18, AR089: 18, AR104: 17, AR052: 16, AR055: 15, AR060: 12, AR061: 9 L0803: 5, L0763: 3, S0360: 2, H0556: 1, H0369: 1, H0392: 1, H0599: 1, H0581: 1, H0251: 1, H0012: 1, L0770: 1, L0800: 1, L0375: 1, L0807: 1, L0809: 1, L0647: 1, L0663: 1, H0593: 1 and L0779: 1.			38-63, 71- 94, 10-26
965	HCDAH28	880010	975	781 - 1227	2380		AR061: 11, AR055: 7, AR096: 6, AR060: 5, AR052: 5, AR033: 4, AR089: 3, AR053: 3, AR104: 2, AR039: 2 H0251: 8, H0624: 4, L0752: 4, H0171: 1, H0286:			79-103, 113-136, 8-24

									1, L0598: 1, L0774: 1, S0428: 1, H0144: 1 and S0126: 1.			
966	HSDFD90	880039	976	866 - 1399	2381	Gln-9 to Gly-15.			AR104: 82, AR033: 43, AR055: 7, AR096: 5, AR089: 4, AR052: 4, AR060: 4, AR039: 4, AR053: 4, AR061: 3 S0126: 2, H0171: 1, S0134: 1, S0053: 1 and S0031: 1.			143-171, 48-68, 15- 33, 73-89
967	HTLJK34	880137	977	177 - 782	2382	Thr-125 to Gly-141, Pro-151 to Leu-156, Cys-160 to Lys-169, Lys-175 to Lys-187.			AR055: 10, AR060: 6, AR061: 5, AR033: 5, AR089: 4, AR096: 4, AR053: 4, AR052: 3, AR104: 3, AR039: 2 L0758: 5, H0618: 1, H0616: 1 and L0794: 1.			30-57, 12- 28, 105- 121
968	HNGKC65	880142	978	1207 - 1671	2383	Ala-97 to His-105.			AR033: 1, AR039: 1, AR089: 1, AR060: 1, AR096: 1, AR053: 1, AR061: 0, AR052: 0, AR055: 0, AR104: 0 H0687: 2, S0428: 1, H0682: 1 and S0032: 1.			21-52, 53- 77, 123- 144, 105- 121, 14-30
969	HHENP77	880178	979	770 - 2893	2384	Glu-124 to Leu-131, Asp-266 to Pro-271, Asn-273 to Phe-280, Glu-315 to Arg-321,			AR039: 11, AR033: 7, AR096: 6, AR053: 5, AR052: 5, AR104: 4, AR089: 4, AR060: 4,			625-652, 3-19, 210- 226, 150- 166, 494-

						Pro-400 to Val-407, Ala-446 to Pro-452, Thr-487 to Gly-492, Phe-517 to Gly-523, Tyr-599 to Lys-605, Thr-611 to Thr-626, Met-653 to Gly-658, Ala-686 to Thr-692.	AR055: 3, AR061: 2 H0543: 18, L0438: 6, L0747: 5, L0439: 4, L0750: 4, L0779: 4, L0759: 4, L0592: 4, S0412: 4, H0156: 3, L0770: 3, L0758: 3, H0423: 3, H0402: 2, H0251: 2, L0809: 2, L0777: 2, H0542: 2, H0422: 2, H0624: 1, H0170: 1, S0114: 1, S0420: 1, S0007: 1, S6026: 1, H0351: 1, S6016: 1, H0013: 1, L0021: 1, H0575: 1, L0157: 1, T0010: 1, H0354: 1, S6028: 1, S0036: 1, H0038: 1, L0804: 1, L0787: 1, L0666: 1, H0658: 1 and L0742: 1.				510
970	HDPBD83	880199	980	1139 - 1720	2385	Arg-8 to Glu-21.	AR089: 1, AR096: 1, AR060: 1, AR053: 1, AR033: 1, AR104: 1, AR061: 1, AR055: 0, AR039: 0, AR052: 0 H0046: 18, H0556: 8, L0731: 8, L0749: 6, H0457: 5, H0266: 5, L0761: 5, L0747: 5, H0265: 4, H0009: 4, L0764: 4, L0565: 4, L0758: 4, H0255: 3, H0012: 3, H0620: 3, H0264: 3,				100-117

971	HHEVU86	880221	981	157 - 480	2386	Pro-46 to Ser-55, Gly-90 to His-96.	L0640: 1, L0770: 1, L0637: 1, L0372: 1, L0643: 1, L0374: 1, L0375: 1, L0776: 1, L0659: 1, L0636: 1, L0518: 1, L0382: 1, L0519: 1, L0647: 1, L0663: 1, H0144: 1, H0723: 1, H0520: 1, H0690: 1, H0435: 1, H0660: 1, H0672: 1, S0328: 1, H0539: 1, S0152: 1, S0406: 1, L0612: 1, S0037: 1, L0741: 1, L0744: 1, L0439: 1, L0740: 1, L0751: 1, L0757: 1, S0031: 1, H0707: 1, L0485: 1 and H0543: 1.					53-75, 28- 44
972	HNFB27	880254	982	309 - 1484	2387		AR096: 11, AR089: 9, AR039: 8, AR104: 5, AR053: 5, AR052: 5, AR060: 4, AR033: 4, AR055: 1, AR061: 1 H0635: 1, H0052: 1, L0648: 1, L0601: 1 and H0543: 1. AR096: 3, AR039: 1, AR033: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0, AR053: 0, AR104: 0					276-309

973	HAPSG46	880278	983	6 - 434	2388				H0052: 8, H0620: 3, H0494: 2, L0741: 2, S0046: 1, H0645: 1, H0587: 1, H0485: 1, H0156: 1, L0032: 1, H0569: 1, H0012: 1, H0014: 1, T0010: 1, H0375: 1, H0416: 1, H0622: 1, H0553: 1, S0036: 1, H0702: 1, L0438: 1, H0547: 1, H0435: 1, H0660: 1, H0555: 1, L0611: 1 and H0506: 1.					15-39, 90- 114, 70- 89, 38-60
974	HTEDK31	880341	984	179 - 529	2389				AR061: 2, AR039: 1, AR060: 1, AR089: 1, AR033: 1, AR096: 0, AR053: 0, AR055: 0, AR104: 0, AR052: 0 S0001: 2, H0575: 1, S0388: 1 and S0260: 1.					19-42, 1- 18, 77-93, 53-69
975	HCWFW0 7	880358	985	111 - 662	2390	Pro-22 to Thr-29, Gln-120 to Arg-128, Asn-151 to Phe-167.			AR055: 7, AR053: 4, AR060: 4, AR052: 4, AR039: 3, AR033: 3, AR061: 3, AR096: 2, AR089: 2, AR104: 1 H0038: 2, L0770: 2, H0597: 1, H0616: 1, L0560: 1 and L0526: 1.					42-68, 97- 116

976	HUFCR29	880363	986	498 - 1154	2391	Met-1 to Gln-7, Pro-9 to Leu-14, Trp-27 to Arg-33.	AR052: 2, AR039: 1, AR061: 1, AR053: 1 L0766: 5, L0777: 4, H0305: 2, L0362: 2, H0624: 1, H0208: 1, H0441: 1, H0599: 1, S0010: 1, H0318: 1, H0052: 1, H0616: 1, H0560: 1, L0768: 1, L0805: 1, S0406: 1, L0748: 1, L0758: 1 and L0592: 1. AR052: 3, AR089: 2, AR033: 2, AR055: 2, AR053: 2, AR096: 1, AR060: 1, AR061: 1, AR104: 0, AR039: 0 L0803: 5, L0764: 4, H0617: 3, L0771: 3, L0809: 3, L0751: 3, S0458: 3, H0549: 2, S0051: 2, L0761: 2, L0800: 2, L0508: 2, L0664: 2, H0689: 2, S0436: 2, H0170: 1, S0354: 1, S0358: 1, H0208: 1, H0438: 1, H0282: 1, S0010: 1, H0085: 1, H0059: 1, L0502: 1, L0770: 1, L0646: 1, L0643: 1, L0794: 1, L0774: 1, L0805: 1, L0511: 1, L0517: 1, L0665: 1, H0658: 1, H0696: 1, S0404: 1,					107-138, 140-173, 65-91, 31- 57
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977	HNTCN90	880370	987	338 - 637	2392		S0406: 1, L0439: 1, L0755: 1, S0260: 1, L0599: 1 and H0506: 1. AR061: 3, AR096: 2, AR055: 1, AR053: 1, AR104: 1, AR089: 1, AR033: 1, AR060: 1, AR039: 0, AR052: 0 H0676: 1, H0013: 1, H0553: 1, H0529: 1, H0519: 1, L0745: 1 and L0759: 1. AR096: 95, AR039: 83, AR104: 79, AR033: 64, AR060: 48, AR089: 42, AR061: 42, AR053: 40, AR052: 38, AR055: 27 H0651: 155, L0731: 9, L0777: 6, L0803: 4, L0775: 3, H0196: 2, H0163: 2, L0662: 2, L0805: 2, L0783: 2, L0438: 2, L0740: 2, L0759: 2, H0170: 1, S0444: 1, H0592: 1, H0632: 1, L0471: 1, H0399: 1, H0615: 1, H0040: 1, S0294: 1, H0647: 1, L0598: 1, L0763: 1, L0638: 1, L0637: 1, L0642: 1, L0374: 1, L0767: 1, L0768: 1, L0794: 1,			33-66, 2- 19	
978	HCMSE07	880378	988	555 - 896	2393	Glu-59 to Gln-65.	AR096: 95, AR039: 83, AR104: 79, AR033: 64, AR060: 48, AR089: 42, AR061: 42, AR053: 40, AR052: 38, AR055: 27 H0651: 155, L0731: 9, L0777: 6, L0803: 4, L0775: 3, H0196: 2, H0163: 2, L0662: 2, L0805: 2, L0783: 2, L0438: 2, L0740: 2, L0759: 2, H0170: 1, S0444: 1, H0592: 1, H0632: 1, L0471: 1, H0399: 1, H0615: 1, H0040: 1, S0294: 1, H0647: 1, L0598: 1, L0763: 1, L0638: 1, L0637: 1, L0642: 1, L0374: 1, L0767: 1, L0768: 1, L0794: 1,			65-83, 86- 102	

979	HWMEV6 1	880405	989	1227 - 1529	2394	Gln-26 to Cys-32.	L0804: 1, L0774: 1, L0375: 1, L0776: 1, L0606: 1, L0659: 1, L0809: 1, L0647: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0439: 1, L0779: 1, L0594: 1, L0361: 1, S0026: 1, S0242: 1 and S0460: 1. AR039: 15, AR033: 8, AR104: 5, AR089: 5, AR096: 5, AR052: 5, AR053: 4, AR060: 4, AR055: 4, AR061: 3 H0253: 2, L0455: 2, L0764: 2, L0649: 2, L0754: 2, S0358: 1, H0046: 1, H0617: 1, H0090: 1, H0038: 1, S0142: 1, S0344: 1, L0646: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0658: 1, L0659: 1, L0789: 1, H0539: 1, S0404: 1, S0406: 1, L0439: 1, L0750: 1, L0777: 1 and L0780: 1.				55-73, 3- 19, 35-51
980	HDPWT82	880431	990	41 - 730	2395		AR033: 2, AR096: 1, AR053: 1, AR060: 1,			24-56, 183-207,	

981	HBGOU17	880444	991	41 - 505	2396	Gln-67 to Ala-73, Ala-85 to Asp-90, Arg-102 to Thr-112.	AR089: 1, AR061: 1, AR104: 0, AR052: 0, AR039: 0, AR055: 0 H0171: 4, L0803: 3, H0521: 3, H0624: 2, S0358: 2, S0222: 1, H0574: 1, L0040: 1, H0622: 1, T0006: 1, L0455: 1, L0763: 1, L0662: 1, L0766: 1, L0655: 1, L0659: 1, L0664: 1, L0665: 1, H0144: 1, S0374: 1, H0522: 1, H0540: 1, L0744: 1, L0779: 1, H0445: 1, L0589: 1, S0458: 1 and H0506: 1.				115-136, 151-169, 70-86, 96- 112
							AR055: 8, AR061: 5, AR060: 4, AR033: 4, AR089: 4, AR052: 4, AR053: 4, AR096: 2, AR104: 2, AR039: 0 L0748: 9, H0617: 4, S0222: 2, L0769: 2, L0756: 2, L0758: 2, H0341: 1, S0001: 1, S0358: 1, H0619: 1, T0040: 1, S0346: 1, H0052: 1, H0081: 1, H0266: 1, L0143: 1, S0142: 1, S0344: 1, L0774: 1, L0784: 1, H0144: 1, H0651: 1, S0027: 1, L0777: 1 and				118-142

982	HIHAMV78	880520	992	585 - 265	2397	Pro-23 to Gly-29, Glu-101 to Asp-107.	S0011: 1. AR104: 210, AR033: 209, AR061: 205, AR096: 150, AR060: 149, AR055: 120, AR089: 118, AR039: 110, AR052: 77, AR053: 56 L0755: 6, L0774: 4, L0776: 4, L0747: 4, L0750: 4, L0769: 3, L0809: 3, L0439: 3, S0358: 2, H0333: 2, H0545: 2, L0770: 2, L0764: 2, L0803: 2, L0775: 2, S0328: 2, S0330: 2, H0696: 2, L0777: 2, H0008: 2, H0556: 1, T0002: 1, H0656: 1, L0785: 1, H0341: 1, H0483: 1, L0005: 1, S0007: 1, H0549: 1, L0623: 1, H0599: 1, H0052: 1, L0157: 1, L0471: 1, H0023: 1, H0615: 1, T0023: 1, H0031: 1, H0644: 1, L0055: 1, S0366: 1, S0036: 1, H0135: 1, H0063: 1, T0067: 1, H0560: 1, S0422: 1, L0371: 1, L0521: 1, L0766: 1, L0375: 1, L0805: 1, L0653: 1, L0661: 1, L0658: 1, L0526: 1, L0531: 1, L0530: 1, L0789: 1, L0666:				60-85
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									1, L0663: 1, S0374: 1, H0520: 1, S0126: 1, S0190: 1, S0176: 1, H0436: 1, L0757: 1, L0758: 1, H0542: 1, H0543: 1, L0697: 1, L0600: 1 and H0352: 1.				
983	HMALN60	880542	993	3 - 512	2398	Arg-6 to Gln-13, Thr-44 to Ser-50, Pro-145 to Asn-168.			AR060: 5, AR096: 3, AR055: 3, AR061: 2, AR104: 1, AR033: 0, AR089: 0, AR053: 0, AR052: 0 S0045: 1, S0278: 1, H0617: 1 and S0044: 1.			93-110	
984	HETBT53	880575	994	66 - 1574	2399	Ser-30 to Leu-36, His-55 to Asn-61, Gln-71 to Gln-96, Pro-129 to Lys-136, Lys-146 to Ser-157, Gly-215 to Ala-220, Ala-250 to Ser-256, Phe-316 to Arg-323, Pro-421 to Ala-427, Leu-435 to Asp-440, Ser-453 to Asp-460.			AR060: 6, AR055: 3, AR089: 1, AR039: 1, AR104: 1, AR033: 1, AR061: 1, AR053: 0, AR096: 0, AR052: 0 H0046: 3, L0601: 3, H0013: 2, H0050: 2, H0620: 2, L0774: 2, S0222: 1, L0471: 1, H0012: 1, L0455: 1, S0150: 1, L0770: 1, L0775: 1, L0655: 1, H0144: 1, H0521: 1, H0134: 1, L0752: 1, S0260: 1 and S0042: 1.			166-182, 401-417	
985	HRAEC49	880595	995	148 - 1251	2400	Phe-30 to Arg-36, Ser-68 to Trp-75.			AR096: 8, AR089: 7, AR060: 7, AR104: 6,			71-101, 339-363,	

986	HNHBD03	880637	996	100 - 1140	2401	Met-1 to Gly-7, Arg-31 to Val-38.	AR039: 5, AR053: 5, AR052: 5, AR033: 4, AR061: 2, AR055: 1 S0222: 3, L0769: 3, L0361: 3, H0156: 2, H0046: 2, H0179: 2, L0794: 2, L0791: 2, H0521: 2, H0555: 2, L0779: 2, L0758: 2, H0624: 1, S0114: 1, H0393: 1, H0549: 1, H0550: 1, S0220: 1, H0357: 1, H0415: 1, H0586: 1, H0331: 1, H0574: 1, H0036: 1, S0010: 1, H0581: 1, H0052: 1, H0596: 1, H0178: 1, H0014: 1, S0051: 1, T0010: 1, H0271: 1, H0553: 1, L0143: 1, H0617: 1, H0040: 1, H0616: 1, H0063: 1, H0551: 1, H0561: 1, H0652: 1, L5575: 1, L0764: 1, L0806: 1, L0809: 1, H0144: 1, S0374: 1, H0539: 1, S0378: 1, H0518: 1, H0478: 1, L0751: 1, L0747: 1, L0750: 1, L0780: 1, L0731: 1, L0366: 1, S0026: 1 and H0667: 1.			149-168, 45-65, 8- 25, 292- 309, 109- 125
986	HNHBD03	880637	996	100 - 1140	2401	Met-1 to Gly-7, Arg-31 to Val-38.	AR055: 5, AR052: 3, AR060: 2, AR033: 2,			254-271, 233-249

987	HTTCB17	880657	997	55 - 1743	2402	Met-40 to Arg-45, Arg-78 to Phe-84, Gly-120 to Gly-126, Phe-150 to Asp-156, Leu-167 to Gly-176, Thr-195 to Thr-202, Asn-336 to Leu-344.	AR089: 2, AR061: 1, AR096: 1, AR104: 1, AR039: 0, AR053: 0 L0766: 5, L0779: 5, L0731: 4, S0358: 3, L0770: 2, L0794: 2, S0374: 2, L0747: 2, L0749: 2, S0444: 1, H0013: 1, H0575: 1, H0581: 1, H0572: 1, H0354: 1, H0622: 1, H0591: 1, H0551: 1, H0494: 1, S0440: 1, H0529: 1, L0796: 1, L0773: 1, L0662: 1, L0804: 1, L0659: 1, L0790: 1, S0053: 1, H0690: 1, H0648: 1, H0672: 1, S0028: 1, L0780: 1, S0434: 1, S0192: 1, H0543: 1 and H0423: 1.					47-63, 233-249
						Trp-15 to Gly-46.	AR052: 11, AR053: 9, AR055: 8, AR033: 6, AR060: 6, AR096: 5, AR061: 4, AR089: 4, AR104: 4, AR039: 3 L0766: 8, L0748: 7, H0038: 4, H0543: 4, L0779: 3, H0624: 2, S0007: 2, H0083: 2, L0805: 2, L0666: 2, H0547: 2, L0439: 2, L0777: 2, L0758: 2, L0596: 2, L0599: 2, S0026: 2,					

988	HE9QG38	880670	998	345 - 1646	2403	Met-1 to Arg-7, Pro-11 to Phe-16, Gly-23 to Glu-34, Trp-124 to Arg-132, Gln-165 to Asp-181, Phe-216 to Thr-221, Gln-286 to Ser-301, Gly-317 to Gln-322, Asp-357 to Asn-366.	AR061: 6, AR052: 5, AR055: 4, AR096: 4, AR089: 4, AR053: 3, AR033: 3, AR060: 3, AR039: 2, AR104: 1 L0766: 7, L0803: 4, H0144: 4, L0779: 3, H0271: 2, S0003: 2, L0761: 2, L0792: 2, L0755: 2, H0171: 1, H0556: 1, S0134: 1, S0218: 1, H0656: 1, S0356: 1 H0580: 1 H0619: 1					52-68
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989	HTTJY18	880697	999	310 - 1263	2404	Met-1 to Lys-8, Lys-23 to Ala-31.	H0600: 1, H0632: 1, H0318: 1, H0563: 1, H0428: 1, H0039: 1, H0553: 1, H0090: 1, H0038: 1, H0040: 1, H0623: 1, S0440: 1, S0150: 1, H0641: 1, S0002: 1, L0769: 1, L0764: 1, L0662: 1, L0775: 1, L0776: 1, H0547: 1, S0126: 1, S0152: 1, L0740: 1, L0754: 1, L0749: 1, L0777: 1, L0752: 1, H0423: 1 and H0422: 1. AR096: 3, AR052: 1, AR055: 1, AR039: 1, AR104: 1, AR089: 1, AR053: 1, AR061: 1, AR060: 0, AR033: 0 L0766: 43, L0754: 12, L0740: 11, S0358: 9, H0575: 7, L0803: 7, L0747: 6, L0731: 6, L0761: 5, L0662: 5, L0805: 5, L0744: 5, L0748: 5, L0779: 5, L0794: 4, H0710: 4, L0749: 4, L0750: 4, L0752: 4, L0757: 4, L0471: 3, H0264: 3, S0210: 3, L0806: 3, S0126: 3, S0328: 3, L0743: 3, L0777: 3, L0759: 3, H0423: 3, S0376: 2, H0013:						282-308, 110-126
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990	HPSND10	880733	1000	63 - 1469	2405	Ser-30 to Leu-35, Pro-44 to Glu-63, Arg-138 to Ala-143, Phe-170 to Asp-177, Arg-248 to Phe-253, Ser-270 to Ala-277, Asp-322 to Gly-335, Leu-363 to Ser-369, Tyr-381 to Glu-388, Arg-455 to Arg-460.	AR096: 90, AR053: 49, AR039: 45, AR052: 27, AR089: 22, AR055: 15, AR033: 14, AR061: 14, AR104: 13, AR060: 10, L0439: 6, H0556: 2, S0007: 2, L0744: 2, L0740: 2, L0731: 2, S0442: 1, L0021: 1, H0618: 1, H0253: 1, H0041: 1, L0770: 1, L0800: 1, L0766: 1, L0803: 1, L0375: 1, L0807: 1,	1, H0040: 1, H0634: 1, H0616: 1, T0067: 1, H0488: 1, H0433: 1, H0056: 1, H0560: 1, H0529: 1, L0369: 1, L0762: 1, L0770: 1, L0638: 1, L0373: 1, L0372: 1, L0764: 1, L0773: 1, L0804: 1, L0776: 1, L0659: 1, L0518: 1, L0384: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, S0148: 1, H0547: 1, H0659: 1, H0670: 1, H0539: 1, S0378: 1, H0518: 1, H0521: 1, H0555: 1, S0028: 1, L0758: 1, H0445: 1, S0434: 1, L0588: 1, S0192: 1, H0543: 1, S0458: 1 and S0384: 1.				230-246, 89-107, 199-215, 122-138, 149-165
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991	HDABX58	880753	1001	924 - 1490	206	Met-1 to Thr-7, Trp-12 to Trp-17.	L0382: 1, L0791: 1, L0793: 1, L0352: 1, S0432: 1, L0741: 1 and L0779: 1. AR052: 8, AR039: 7, AR033: 7, AR089: 7, AR053: 6, AR096: 6, AR104: 5, AR055: 5, AR060: 4, AR061: 4 L0803: 9, L0740: 9, L0769: 6, L0794: 5, L0805: 5, L0439: 5, L0518: 4, H0059: 3, L0809: 3, L0757: 3, H0550: 2, S0222: 2, H0497: 2, H0618: 2, H0620: 2, S0051: 2, L0638: 2, L0747: 2, L0750: 2, L0596: 2, L0605: 2, H0265: 1, H0583: 1, H0381: 1, S0282: 1, H0254: 1, H0255: 1, S0418: 1, S0360: 1, S0007: 1, H0486: 1, H0156: 1, H0052: 1, H0263: 1, H0545: 1, H0457: 1, H0150: 1, H0050: 1, T0010: 1, H0083: 1, H0286: 1, H0428: 1, H0418: 1, H0673: 1, S0036: 1, H0551: 1, H0264: 1, H0494: 1, H0130: 1, L0770: 1, L0761: 1, L0646: 1, L0800: 1, L0662: 1, L0768:	9q34.1	103000, 114350, 120900, 131195, 185000, 189980, 600184, 602575, 602575	37-57, 138-154, 82-98
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992	HE9PB45	880774	1002	880 - 1194	2407	Lys-95 to Tyr-100.		AR061: 6, AR055: 5, AR033: 5, AR052: 4, AR096: 4, AR060: 3, AR089: 3, AR053: 3, AR104: 1 L0770: 6, L0766: 5, L0777: 5, L0759: 4, H0052: 2, L0769: 2, L0750: 2, L0592: 2, L0608: 2, S0040: 1, H0663: 1, H0497: 1, H0575: 1, L0157: 1, H0591: 1, H0264: 1, L0764: 1, L0662: 1, L0774: 1, H0144: 1, L0438: 1, S0126: 1, H0683: 1, H0521: 1, L0751: 1, L0754: 1, L0749: 1, L0752: 1, L0753: 1, L0758: 1, S0434: 1, H0543: 1 and H0422: 1.				37-56, 5- 21
993	HELGM94	880807	1003	73 -	2408	Lys-91 to Ala-106,		AR096: 13, AR089: 10,	16p11.2	147781,		139-155,

				1437	Tyr-125 to Gly-132, Asn-157 to Glu-166, Glu-228 to Glu-233, Ser-315 to Asp-323, Leu-332 to Leu-337, Ser-363 to Lys-371, Thr-446 to Ile-452.	AR052: 8, AR060: 8, AR053: 7, AR033: 6, AR055: 6, AR039: 5, AR104: 5, AR061: 4 H0584: 5, H0599: 5, H0556: 4, H0124: 4, H0341: 3, H0559: 3, H0622: 3, H0125: 2, S0045: 2, H0620: 2, H0024: 2, T0042: 2, L0665: 2, H0265: 1, S0024: 1, H0583: 1, H0208: 1, S0046: 1, H0393: 1, S0278: 1, H0549: 1, H0550: 1, H0438: 1, H0586: 1, H0486: 1, H0250: 1, S0280: 1, H0706: 1, H0253: 1, H0009: 1, H0687: 1, H0284: 1, H0424: 1, H0031: 1, S0366: 1, H0116: 1, H0056: 1, S0038: 1, H0494: 1, H0132: 1, H0131: 1, H0130: 1, L0662: 1, L0803: 1, S0428: 1, S0216: 1, H0144: 1, S0126: 1, H0670: 1, H0518: 1, S0152: 1, S0118: 1, S3014: 1, L0759: 1 and S0011: 1.		172471, 182381	25-41, 377-393, 166-182
994	HJBBC09	880809	1004	102 - 1577	2409	Met-1 to Arg-14, Pro-20 to Ser-32, Arg-40 to Thr-49,	AR039: 5, AR055: 4, AR033: 4, AR096: 4, AR053: 3, AR052: 3,		75-94, 420-437, 317-335,

						Pro-107 to Thr-115, Ala-146 to Lys-151, Arg-243 to Tyr-254, Lys-309 to Trp-318.		AR104: 3, AR060: 3, AR061: 2, AR089: 2, H0556: 3, H0341: 2, H0144: 2, L0743: 2, H0543: 2, H0295: 1, H0661: 1, S0046: 1, H0587: 1, H0333: 1, H0486: 1, H0013: 1, H0618: 1, H0009: 1, H0024: 1, T0010: 1, H0553: 1, T0042: 1, S0150: 1, S0142: 1, S0422: 1, L0787: 1, H0519: 1, S0152: 1, H0134: 1, L0779: 1, S0434: 1, S0276: 1 and H0422: 1.				288-304, 151-167, 118-134, 188-204, 449-465
995	HTXJF02	880913	1005	122 - 646	2410	Ala-15 to Gln-20, Tyr-89 to Glu-103, Lys-156 to Gly-163.		AR033: 77, AR052: 62, AR053: 55, AR104: 36, AR089: 23, AR055: 22, AR096: 21, AR060: 12, AR039: 9, AR061: 9 H0556: 1, H0295: 1, S0418: 1, S0354: 1, H0586: 1, H0587: 1 and H0494: 1.				134-155, 26-45, 59- 77, 112- 129
996	HKAEN78	880927	1006	66 - 479	2411	Tyr-46 to Gly-52.		AR104: 7, AR033: 6, AR053: 6, AR052: 6, AR039: 5, AR060: 3, AR055: 3, AR096: 3, AR089: 3, AR061: 1 S0356: 2, S0002: 2, L0772: 2, L0748: 2, L0758: 2,				99-115, 16-32

997	HKADD76	880936	1007	93 - 1070	2412	Arg-49 to Tyr-62, Tyr-88 to Ala-97, Gly-230 to Lys-239, Gln-270 to Cys-276, Glu-296 to Gly-304.	AR096: 2, AR052: 1, AR061: 1, AR089: 1, AR060: 0, AR053: 0, AR033: 0, AR039: 0, AR104: 0 H0264: 4, H0488: 4, S0328: 3, S0306: 2, S0476: 1, H0272: 1, H0487: 1, H0494: 1, H0633: 1, L5623: 1 and S0330: 1.	L0581: 2, H0265: 1, H0556: 1, H0341: 1, S0212: 1, S0444: 1, S0360: 1, H0249: 1, H0331: 1, H0744: 1, H0290: 1, H0100: 1, T0042: 1, H0494: 1, L0369: 1, L0763: 1, L0646: 1, L0645: 1, L0764: 1, L0771: 1, L0662: 1, L0381: 1, H0576: 1, L0777: 1, L0755: 1 and L0595: 1.	2	239-268, 145-171, 100-118, 194-210, 5-21, 65- 81, 132- 148, 308- 324	
998	HKITYF62	880972	1008	140 - 517	2413	Val-7 to Lys-12, Tyr-58 to Leu-64, Arg-91 to Ser-104, Pro-117 to Val-126.	AR039: 28, AR096: 21, AR104: 18, AR060: 16, AR061: 16, AR089: 15, AR053: 15, AR055: 14, AR033: 13, AR052: 10 L0748: 17, H0521: 13, L0655: 4, H0522: 4, L0754: 4, H0575: 3, L0439: 3,	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700,	11q13	70-90, 12- 28	

999	HBXAT65	881010	1009	145 - 918	2414	Asp-18 to Gly-24, Asp-63 to Met-70, Ser-82 to Pro-89, Glu-117 to Ser-125, Glu-151 to Asp-171.	L0605: 3, H0619: 2, S0010: 2, H0050: 2, S0051: 2, H0644: 2, S0344: 2, L0646: 2, L0775: 2, L0776: 2, L0666: 2, L0758: 2, L0366: 2, S0282: 1, H0255: 1, H0661: 1, S0358: 1, H0406: 1, H0550: 1, S0222: 1, H0441: 1, H0592: 1, H0632: 1, S0280: 1, H0590: 1, H0309: 1, H0327: 1, H0150: 1, H0123: 1, H0024: 1, H0014: 1, T0010: 1, H0355: 1, H0510: 1, H0375: 1, H0328: 1, T0006: 1, H0031: 1, L0143: 1, H0087: 1, S0112: 1, L0435: 1, S0142: 1, L0770: 1, L0773: 1, L0767: 1, L0794: 1, L0803: 1, L0805: 1, L0606: 1, L0659: 1, L0809: 1, L0791: 1, H0658: 1, S0328: 1, S0380: 1, L0749: 1, L0756: 1, L0777: 1 and S0436: 1. AR104: 17, AR033: 17, AR060: 15, AR061: 9, AR053: 7, AR089: 4, AR052: 4, AR039: 3, AR096: 2 L0438: 7, L0769: 4,			L0605: 3, H0619: 2, S0010: 2, H0050: 2, S0051: 2, H0644: 2, S0344: 2, L0646: 2, L0775: 2, L0776: 2, L0666: 2, L0758: 2, L0366: 2, S0282: 1, H0255: 1, H0661: 1, S0358: 1, H0406: 1, H0550: 1, S0222: 1, H0441: 1, H0592: 1, H0632: 1, S0280: 1, H0590: 1, H0309: 1, H0327: 1, H0150: 1, H0123: 1, H0024: 1, H0014: 1, T0010: 1, H0355: 1, H0510: 1, H0375: 1, H0328: 1, T0006: 1, H0031: 1, L0143: 1, H0087: 1, S0112: 1, L0435: 1, S0142: 1, L0770: 1, L0773: 1, L0767: 1, L0794: 1, L0803: 1, L0805: 1, L0606: 1, L0659: 1, L0809: 1, L0791: 1, H0658: 1, S0328: 1, S0380: 1, L0749: 1, L0756: 1, L0777: 1 and S0436: 1. AR104: 17, AR033: 17, AR060: 15, AR061: 9, AR053: 7, AR089: 4, AR052: 4, AR039: 3, AR096: 2 L0438: 7, L0769: 4,		161015, 164009, 168461, 168461, 168461, 180721, 180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884		225-252, 181-202
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1000	HDQDF85	881146	1010	227 - 1615	2415	Ser-2 to Ser-7, Gly-44 to Asp-50, Ala-60 to Lys-70.	L0439: 4, L0777: 3, S0222: 2, H0599: 2, H0052: 2, H0039: 2, S0038: 2, L0662: 2, L0745: 2, L0747: 2, L0756: 2, S6024: 1, H0305: 1, H0441: 1, H0097: 1, T0082: 1, S0010: 1, H0196: 1, H0327: 1, H0620: 1, H0408: 1, S6028: 1, H0328: 1, T0006: 1, L0770: 1, L0650: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0809: 1, L0792: 1, H0682: 1 and L0750: 1.	16				410-426, 186-202
							AR039: 17, AR033: 9, AR104: 9, AR096: 9, AR053: 9, AR089: 8, AR055: 8, AR061: 6, AR060: 6, AR052: 6, L0439: 8, H0457: 5, L0438: 5, H0521: 5, L0748: 4, H0090: 3, S0142: 3, L0761: 3, L0415: 2, H0663: 2, S0344: 2, L0644: 2, L0794: 2, L0776: 2, L0665: 2, S0052: 2, L0751: 2, L0756: 2, H0662: 1, S0444: 1, H0637: 1, S0278: 1, H0550: 1, H0614: 1, H0586: 1, H0486: 1, T0040: 1,					

1001	HRAAA79	881197	1011	56 - 433	2416	Ala-31 to Gly-45.	H0318: 1, T0001: 1, H0009: 1, H0620: 1, S0051: 1, H0179: 1, H0271: 1, H0416: 1, H0688: 1, H0617: 1, H0135: 1, H0087: 1, H0625: 1, H0561: 1, S0002: 1, S0426: 1, L0763: 1, L0769: 1, L0773: 1, L0766: 1, L0381: 1, L0804: 1, S0374: 1, H0593: 1, H0690: 1, H0672: 1, H0651: 1, H0214: 1, H0436: 1, S3014: 1, S0028: 1, L0758: 1, L0608: 1 and L0362: 1. AR039: 4, AR096: 4, AR060: 4, AR052: 4, AR053: 3, AR089: 3, AR033: 3, AR104: 2, AR055: 2, AR061: 1 S0126: 9, L0777: 5, L0752: 4, H0013: 3, L0775: 3, H0144: 3, L0779: 3, L0731: 3, S0003: 2, L0770: 2, L0766: 2, L0659: 2, L0439: 2, L0754: 2, L0757: 2, L0758: 2, H0624: 1, H0171: 1, S0040: 1, H0657: 1, S0420: 1, S0354: 1, S0358: 1, H0619: 1, H0333: 1, H0331: 1, H0156: 1,				108-126, 84-100, 2- 18
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1002	HEOQC11	881219	1012	78 - 2348	2417	Lys-14 to Thr-23, His-28 to Arg-35, Pro-42 to Asn-47, Thr-132 to Phe-140, Gln-187 to Glu-196, Gly-216 to Ser-235, Thr-269 to Phe-275, Ile-294 to Lys-303, Ser-313 to Lys-318, Leu-358 to Phe-363, Gly-405 to Asp-416, Ser-441 to Glu-450, Gln-516 to Pro-529, Val-558 to Thr-570, Leu-573 to Arg-578, Gln-583 to Gln-589, Asp-614 to Asn-623, Asp-629 to Phe-642,	2417	Lys-14 to Thr-23, His-28 to Arg-35, Pro-42 to Asn-47, Thr-132 to Phe-140, Gln-187 to Glu-196, Gly-216 to Ser-235, Thr-269 to Phe-275, Ile-294 to Lys-303, Ser-313 to Lys-318, Leu-358 to Phe-363, Gly-405 to Asp-416, Ser-441 to Glu-450, Gln-516 to Pro-529, Val-558 to Thr-570, Leu-573 to Arg-578, Gln-583 to Gln-589, Asp-614 to Asn-623, Asp-629 to Phe-642,	2417	Lys-14 to Thr-23, His-28 to Arg-35, Pro-42 to Asn-47, Thr-132 to Phe-140, Gln-187 to Glu-196, Gly-216 to Ser-235, Thr-269 to Phe-275, Ile-294 to Lys-303, Ser-313 to Lys-318, Leu-358 to Phe-363, Gly-405 to Asp-416, Ser-441 to Glu-450, Gln-516 to Pro-529, Val-558 to Thr-570, Leu-573 to Arg-578, Gln-583 to Gln-589, Asp-614 to Asn-623, Asp-629 to Phe-642,	L0021: 1, H0575: 1, H0590: 1, H0052: 1, T0110: 1, H0011: 1, H0266: 1, H0165: 1, H0412: 1, H0413: 1, H0494: 1, L0800: 1, L0764: 1, L0771: 1, L0662: 1, L0774: 1, L0805: 1, L0776: 1, L0519: 1, L0666: 1, L0664: 1, L0665: 1, H0519: 1, H0555: 1, S0027: 1, L0748: 1, L0750: 1, S0436: 1, L0601: 1 and H0506: 1. AR096: 4, AR089: 3, AR039: 3, AR104: 3, AR053: 3, AR052: 2, AR033: 2, AR061: 2, AR060: 2, AR055: 1 H0457: 8, H0556: 6, L0751: 6, H0618: 4, H0318: 4, H0038: 3, L0766: 3, S0442: 2, S0354: 2, H0553: 2, H0616: 2, H0100: 2, L0764: 2, L0662: 2, L0659: 2, L0783: 2, L0528: 2, S0152: 2, L0756: 2, L0731: 2, L0587: 2, H0667: 2, H0543: 2, H0295: 1, H0294: 1, S0134: 1, H0657: 1, S0418: 1, L0617: 1, S0376: 1, S0444: 1, S0360: 1,	22	318-335, 451-467, 152-168, 243-259
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1003	HJKA08	881310	1013	625 - 170	2418	Lys-651 to Val-679, Lys-700 to Ser-706, Pro-714 to Ala-738, Asp-747 to Gly-753.	H0619: 1, H0369: 1, H0370: 1, T0039: 1, H0427: 1, H0581: 1, H0597: 1, H0123: 1, H0024: 1, H0200: 1, H0051: 1, H0510: 1, H0266: 1, H0271: 1, H0290: 1, H0428: 1, H0424: 1, H0030: 1, H0644: 1, H0181: 1, H0617: 1, H0032: 1, H0165: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0087: 1, H0264: 1, L0770: 1, L0627: 1, L0372: 1, L0646: 1, L0768: 1, L0775: 1, L0658: 1, L0809: 1, L0665: 1, H0701: 1, H0699: 1, S0126: 1, H0684: 1, H0539: 1, S0037: 1, S0027: 1, L0748: 1, L0749: 1, L0752: 1, L0759: 1, L0596: 1, L0599: 1, L0593: 1, S0192: 1 and H0422: 1.				44-60, 134-150
						Glu-105 to Val-112.	AR055: 4, AR052: 4, AR060: 3, AR053: 3, AR104: 3, AR096: 3, AR061: 3, AR039: 3, AR033: 3, AR089: 2 L0777: 10, L0748: 9, L0666: 8, H0457: 6, L0758: 6, L0438: 5, L0750: 5,				

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1005	HPJCS44	881430	1015	29 - 454	2420	His-35 to Ala-40, His-44 to Leu-56, Pro-64 to Pro-71, Arg-95 to Asn-110, Ser-114 to Pro-132.	AR055: 13, AR033: 12, AR060: 10, AR089: 9, AR061: 8, AR096: 7, AR052: 5, AR053: 5, AR104: 4, AR039: 3 H0318: 3, H0046: 3, L0742: 3, L0747: 3, S0046: 2, H0455: 2, L0748: 2, S0342: 1, H0662: 1, S0358: 1, S0444: 1, S0278: 1, H0370: 1, T0040: 1, S0280: 1, H0565: 1, L0471: 1, H0014: 1, S0388: 1, H0266: 1, H0288: 1, H0124: 1, H0708: 1, H0040: 1, H0625: 1, H0641: 1, H0647: 1, L0518: 1, S0374: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0390: 1, L0750: 1, L0752: 1, L0731: 1, L0592: 1 and H0423: 1.			72-93
1006	HTAIV82	881434	1016	267 - 581	2421		AR033: 2, AR089: 1, AR060: 1, AR061: 0, AR039: 0 H0265: 1, H0556: 1, H0574: 1, H0635: 1 and H0423: 1.			55-71, 79- 95
1007	HACBW10	881438	1017	1112 - 1414	2422	His-22 to Thr-28, His-89 to Cys-96.	AR039: 38, AR052: 26, AR053: 25, AR104: 21,			66-87

									AR089: 21, AR096: 21, AR033: 21, AR055: 20, AR060: 14, AR061: 11 L0439: 13, L0438: 11, L0769: 10, L0766: 7, L0749: 5, L0666: 3, L0352: 3, L0748: 3, L0779: 3, H0637: 2, H0052: 2, H0194: 2, L0351: 2, L0770: 2, L0761: 2, L0783: 2, L0789: 2, L0790: 2, L0664: 2, L0747: 2, L0758: 2, L0759: 2, H0445: 2, L0592: 2, H0624: 1, H0556: 1, H0686: 1, T0049: 1, H0657: 1, H0483: 1, H0663: 1, H0638: 1, S0420: 1, S0376: 1, S0007: 1, H0619: 1, H0393: 1, L0717: 1, H0441: 1, H0643: 1, S0280: 1, H0253: 1, H0318: 1, S0388: 1, T0010: 1, H0271: 1, H0428: 1, H0424: 1, H0606: 1, L0456: 1, H0056: 1, H0494: 1, S0352: 1, H0538: 1, H0529: 1, L0763: 1, L0772: 1, L0378: 1, L0657: 1, L0658: 1, L0659: 1, H0144: 1, H0693: 1, H0520: 1, H0690: 1, H0658: 1, H0539:
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1008	HUFBN79	881443	1018	20 - 610	2423	Phe-5 to Ala-19, Ser-29 to Asp-41, Leu-49 to Val-57, Glu-68 to Arg-77, Pro-163 to Glu-171.	1, H0521: 1, H0436: 1, S0037: 1, S0206: 1, L0740: 1, L0754: 1, L0593: 1, S0011: 1, H0665: 1, S0242: 1, H0423: 1 and H0422: 1. AR053: 3, AR039: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR061: 1, AR033: 1, AR060: 0, AR104: 0 L0748: 9, S0007: 6, L0754: 5, S0134: 3, H0457: 3, L0771: 3, L0666: 3, L0749: 3, H0657: 2, S0420: 2, S0358: 2, S0360: 2, S0222: 2, L0761: 2, L0764: 2, L0766: 2, L0607: 2, L0809: 2, H0648: 2, L0742: 2, L0759: 2, H0506: 2, H0686: 1, H0583: 1, S0116: 1, H0450: 1, S0045: 1, H0640: 1, H0351: 1, H0600: 1, H0574: 1, L0021: 1, H0575: 1, H0274: 1, H0581: 1, T0003: 1, H0014: 1, H0099: 1, H0179: 1, T0023: 1, H0673: 1, H0264: 1, H0102: 1, H0494: 1, H0561: 1, H0538: 1, L0598: 1, L0637: 1, L0667: 1, L0772:				169-191, 99-115
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1009	HCFCN07	881450	1019	66 - 575	2424	Ser-48 to Trp-54, Pro-77 to Phe-84, Leu-89 to Leu-103, Met-110 to Asp-132, Glu-165 to Glu-170.	1, L0373: 1, L0646: 1, L0800: 1, L0662: 1, L0364: 1, L0649: 1, L0650: 1, L0653: 1, L0655: 1, L0542: 1, L0526: 1, L0789: 1, L0663: 1, L0664: 1, L0665: 1, L0565: 1, H0520: 1, S0126: 1, H0659: 1, H0658: 1, H0660: 1, H0651: 1, H0521: 1, H0696: 1, L0744: 1, L0439: 1, L0751: 1, L0745: 1, L0746: 1, L0747: 1, L0756: 1, L0779: 1, L0777: 1, L0755: 1, L0731: 1, L0588: 1, L0581: 1, L0361: 1, S0242: 1, H0542: 1, UNKWN: 1, L0600: 1 and H0352: 1. AR089: 12, AR033: 9, AR052: 8, AR053: 7, AR039: 7, AR055: 6, AR096: 5, AR060: 5, AR061: 2, AR104: 2 L0747: 8, L0752: 7, S0358: 6, L0758: 6, H0521: 5, L0740: 5, L0757: 5, L0771: 4, L0749: 4, L0731: 4, L0362: 4, S0360: 3, H0486: 3, H0551: 3, L0766: 3, L0775: 3, S0376: 2,					54-78, 17- 40
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H0457: 2, H0050: 2, H0266: 2, S0214: 2, S0036: 2, H0647: 2, L0769: 2, L0764: 2, L0776: 2, L0659: 2, H0593: 2, L0744: 2, L0748: 2, L0756: 2, L0777: 2, L0755: 2, S0260: 2, L0590: 2, L0599: 2, H0422: 2, S0398: 2, H0170: 1, H0265: 1, S0040: 1, T0049: 1, H0650: 1, H0663: 1, S0354: 1, H0580: 1, S0007: 1, S0045: 1, H0586: 1, H0587: 1, L0622: 1, H0013: 1, H0156: 1, H0042: 1, H0318: 1, H0546: 1, H0373: 1, S0388: 1, H0040: 1, H0264: 1, S0150: 1, S0344: 1, L0763: 1, L0770: 1, L0772: 1, L0646: 1, L0648: 1, L0662: 1, L0768: 1, L0774: 1, L0806: 1, L0805: 1, L0653: 1, L0655: 1, L0809: 1, L0789: 1, H0144: 1, S0374: 1, H0547: 1, H0519: 1, S0126: 1, S0122: 1, H0690: 1, H0658: 1, H0522: 1, S0027: 1, L0779: 1, L0759: 1, L0595: 1, S0026: 1, S0276: 1, H0542: 1,

1010	HLWDZ66	881490	1020	219 - 683	2425	Pro-8 to Ser-18, Thr-59 to Gly-66, Asn-107 to Gln-112, Ser-136 to Gln-152.	S0424: 1, H0677: 1 and H0506: 1. AR096: 4, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0759: 7, L0803: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1, S0360: 1, H0329: 1, S0222: 1, H0497: 1, T0040: 1, H0036: 1, H0051: 1, H0687: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, H0598: 1, H0040: 1, H0634: 1, L0060: 1, T0041: 1, L0773: 1, L0774: 1, L0657: 1, L0809: 1, L0789: 1, L0664: 1, H0519: 1, S0126: 1, H0689: 1, H0435: 1, H0670: 1, H0555: 1, L0748: 1, L0439: 1, L0731: 1, S0031: 1 and S0434: 1.				65-81
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1011	HEONP58	881498	1021	80 - 568	2426	Tyr-114 to Ala-120, Thr-147 to Asp-153.	AR039: 3, AR033: 3, AR089: 2, AR061: 2, AR096: 2, AR052: 2, AR055: 2, AR060: 1, AR104: 1, AR053: 1 L0809: 3, L0769: 2, L0764: 2, L0773: 2, L0766: 2, L0774: 2, L0659: 2, L0438: 2, S0328: 2, L0731: 2, L0603: 2, H0583: 1, H0549: 1, H0438: 1, H0586: 1, H0486: 1, H0052: 1, H0457: 1, H0553: 1, H0561: 1, L0640: 1, L0770: 1, L0638: 1, L0761: 1, L0800: 1, L0644: 1, L0771: 1, L0662: 1, L0767: 1, L0768: 1, L0775: 1, L0655: 1, L0559: 1, L0518: 1, L0783: 1, L0789: 1, L0790: 1, L0664: 1, S0380: 1, S0406: 1, L0777: 1 and L0757: 1.			91-114, 3- 23, 59-75
1012	HMAGN19	881531	1022	694 - 1074	2427	Pro-12 to Ala-23, Thr-90 to Thr-95.	AR096: 4, AR052: 3, AR039: 2, AR053: 2, AR089: 1, AR104: 1, AR060: 1, AR033: 1, AR061: 1, AR055: 0 S0045: 6, S0028: 5, S0278: 2, S0031: 2, S0282: 1, S0046: 1, S06026: 1, H0550:			95-121, 32-48

1013	HFCAP42	881569	1023	640 - 1227	2428		1, S0222: 1, H0013: 1, H0318: 1, H0246: 1, H0271: 1, S0052: 1, S0428: 1, S0037: 1 and L0592: 1.	1q31	134580, 145001, 145260, 150292, 208250, 226450, 600105, 600759, 600995, 601652	84-101, 175-191	
							AR033: 2, AR104: 1, AR053: 1, AR052: 1, AR089: 1, AR060: 1, AR061: 0, AR039: 0, AR055: 0, AR096: 0 H0545: 7, H0617: 7, S0360: 4, H0658: 4, H0494: 3, H0295: 2, S0212: 2, H0661: 2, S0358: 2, H0606: 2, S0440: 2, L0769: 2, L0794: 2, L0783: 2, L0749: 2, L0601: 2, H0713: 1, H0717: 1, H0716: 1, H0294: 1, S0418: 1, S0356: 1, H0733: 1, S0045: 1, S0132: 1, S0278: 1, H0586: 1, L0622: 1, H0599: 1, H0581: 1, S0049: 1, H0052: 1, H0309: 1, H0544: 1, H0150: 1, H0009: 1, H0564: 1, H0620: 1, S0388: 1, H0375: 1, H0615: 1, H0031: 1, S0036: 1, H0059: 1, S0450: 1, H0633: 1, S0426: 1, L0371: 1, L0770: 1, L0645: 1, L0768: 1, L0804: 1,				

1014	HWBBT49	881570	1024	70 - 1095	2429	Glu-96 to Lys-106.	AR096: 1, AR052: 1, AR033: 0, AR061: 0, AR089: 0, AR055: 0, AR053: 0, AR039: 0, AR060: 0, AR104: 0 L0439: 6, S0002: 5, S0360: 3, H0580: 3, H0575: 3, S0346: 3, L0483: 3, L0804: 3, L0748: 3, H0597: 2, S0144: 2, L0662: 2, L0517: 2, L0665: 2, L0438: 2, L0754: 2, L0779: 2, S0242: 2, S0420: 1, S0356: 1, H0574: 1, H0042: 1, H0570: 1, H0510: 1, H0375: 1, S6028: 1, H0622: 1, L0194: 1, H0634: 1, H0413: 1, S0464: 1, S0344: 1, L0638: 1, L0761: 1, L0643: 1, L0493: 1, L0659: 1, L0783: 1, L0530: 1, L0666: 1, S0374: 1, H0593: 1, S0126: 1, H0435: 1, H0521: 1, H0478: 1, L0749: 1, L0777: 1, L0731: 1, H0445: 1,	L0775: 1, L0806: 1, L0653: 1, L0790: 1, L0666: 1, H0547: 1, S0126: 1, H0689: 1, H0539: 1, S3012: 1 and L0740: 1.				2-23, 52- 68, 128- 144
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1015	HDPBT62	881683	1025	90 - 473	2430	Asn-31 to Thr-37, Arg-83 to Asn-88.	S0434: 1, S0194: 1 and H0543: 1. AR039: 45, AR053: 40, AR104: 30, AR096: 29, AR052: 29, AR033: 27, AR089: 23, AR055: 20, AR060: 16, AR061: 14 H0521: 3, H0457: 2, H0497: 1, H0014: 1, H0179: 1, L0766: 1, H0698: 1, . H0542: 1 and H0506: 1.			43-59, 90- 106
1016	HDTIT02	881693	1026	111 - 572	2431	Thr-29 to Arg-36, Cys-41 to Arg-57, Lys-62 to Gln-67, Gly-75 to Ile-83, Lys-123 to Thr-131, Leu-137 to Glu-145.	AR089: 11, AR033: 9, AR052: 7, AR060: 7, AR053: 6, AR055: 5, AR061: 4, AR096: 2, AR104: 2, AR039: 0 L0747: 16, L0748: 15, L0731: 10, L0752: 8, L0775: 7, L0750: 7, S0328: 6, L0757: 6, S0358: 5, S3014: 5, S0354: 3, H0038: 3, H0040: 3, L0774: 3, S0378: 3, H0696: 3, S0360: 2, H0393: 2, H0587: 2, H0069: 2, H0110: 2, H0413: 2, T0042: 2, S0422: 2, L0763: 2, L0770: 2, L0772: 2, L0764: 2, L0768: 2, L0806: 2, L0666: 2, H0659:			99-122

1017	HWHHS59	881714	1027	46 - 612	2432	Pro-19 to Ala-24.	1, S0196: 1, H0542: 1, H0422: 1 and S0384: 1. AR096: 8, AR053: 8, AR052: 7, AR089: 6, AR033: 6, AR055: 4, AR060: 4, AR104: 3, AR039: 2, AR061: 2 H0052: 3, L0751: 3, H0624: 2, S0418: 2, L0562: 2, H0179: 2, L0761: 2, L0771: 2, L0766: 2, L0659: 2, L0750: 2, L0777: 2, L0590: 2, S0376: 1, H0261: 1, H0592: 1, H0586: 1, H0587: 1, H0581: 1, H0546: 1, H0571: 1, H0083: 1, H0266: 1, H0181: 1, H0617: 1, H0124: 1, H0634: 1, H0551: 1, H0488: 1, L0351: 1, L0769: 1, L0637: 1, L0662: 1, L0378: 1, L0805: 1, L0655: 1, L0788: 1, L0666: 1, L0664: 1, L0665: 1, H0547: 1, H0519: 1, H0659: 1, H0521: 1, L0439: 1, L0747: 1, L0779: 1, L0758: 1 and H0543: 1.				156-175, 67-83, 7-23, 45-61
1018	HJPCP29	881766	1028	24 - 737	2433	Gln-81 to Gly-88.	AR055: 9, AR053: 5, AR052: 5, AR096: 5,				27-56, 164-181,

1019	HHEBM09	881890	1029	132 - 461	2434	Leu-22 to Ser-27.	AR033: 5, AR060: 4, AR089: 4, AR061: 3, AR039: 3, AR104: 3 L0758: 5, S0358: 4, L0439: 4, S0356: 3, L0751: 3, L0747: 3, L0779: 3, H0265: 2, H0381: 2, H0331: 2, H0052: 2, H0009: 2, L0157: 2, H0617: 2, L0769: 2, L0806: 2, L0783: 2, L0750: 2, S0436: 2, H0556: 1, H0685: 1, L0619: 1, L0005: 1, S0444: 1, H0619: 1, H0587: 1, H0566: 1, H0051: 1, H0083: 1, T0006: 1, L0055: 1, H0316: 1, H0135: 1, H0616: 1, H0551: 1, H0494: 1, L0372: 1, L0648: 1, L0768: 1, L0803: 1, L0379: 1, L0807: 1, L0659: 1, L0793: 1, L0665: 1, H0520: 1, H0547: 1, H0689: 1, H0539: 1, H0522: 1, H0696: 1, S3012: 1, S3014: 1, L0748: 1, L0777: 1, H0543: 1 and H0506: 1.	AR096: 5, AR104: 4, AR039: 4, AR052: 4, AR053: 3, AR055: 2, AR089: 2, AR033: 2,			132-149, 105-121, 59-75
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1020	HDPIV17	881907	1030	41 - 739	2435	Ser-62 to Ala-69, Gly-77 to Gly-98.	AR061: 1, AR060: 1 L0748: 3, S0250: 1, L0751: 1 and H0542: 1. AR060: 1, AR055: 1, AR089: 1, AR061: 1, AR033: 0, AR096: 0, AR039: 0, AR052: 0, AR053: 0, AR104: 0 L0766: 3, H0635: 1, H0318: 1, H0581: 1, H0457: 1, H0179: 1, H0560: 1, H0561: 1, L0764: 1, L0794: 1, L0803: 1, L0775: 1, L0806: 1, L0790: 1, L0791: 1, L0792: 1, L0665: 1, H0521: 1, L0779: 1 and L0758: 1.	180-196, 118-134, 8-24, 44- 60
1021	HBGNO49	881968	1031	86 - 496	2436	Pro-16 to Gly-24, Glu-41 to Phe-49, Glu-81 to Gln-95, Arg-104 to Ser-114.	AR052: 18, AR055: 16, AR033: 14, AR053: 12, AR104: 11, AR089: 9, AR096: 8, AR061: 8, AR060: 8, AR039: 0 H0617: 3 and H0428: 1.	50-72
1022	HWAFQ40	882003	1032	149 - 562	2437	Met-1 to Ser-12, Pro-28 to Cys-39.	AR055: 1, AR060: 1, AR039: 0, AR052: 0, AR061: 0, AR089: 0, AR096: 0, AR053: 0, AR033: 0, AR104: 0 L0766: 34, S0360: 7,	82-105

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1023	HTLGZ03	882014	1033	1117 - 1545	2438	Ser-10 to Pro-17.	H0622: 1, H0674: 1, H0316: 1, H0551: 1, H0264: 1, H0100: 1, H0494: 1, H0509: 1, S0002: 1, S0426: 1, L0369: 1, L0770: 1, L0769: 1, L0761: 1, L0772: 1, L0644: 1, L0764: 1, L0521: 1, L0662: 1, L0804: 1, L0774: 1, L0655: 1, L0527: 1, L0663: 1, S0374: 1, H0520: 1, H0547: 1, H0593: 1, S0126: 1, H0660: 1, S0328: 1, H0539: 1, S0380: 1, H0522: 1, L0740: 1, L0754: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1, S0026: 1, H0667: 1, H0136: 1, H0542: 1, S0424: 1 and H0506: 1. AR055: 11, AR060: 6, AR033: 6, AR061: 5, AR052: 5, AR089: 5, AR053: 4, AR096: 4, AR104: 3, AR039: 2 H0253: 4, H0584: 3, H0457: 3, L0005: 2, H0587: 2, H0599: 2, H0581: 2, H0539: 2, H0521: 2, S0040: 1, H0583: 1, H0657: 1, H0484: 1, H0254: 1, H0402:					114-142
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1024	HLXCX18	882016	1034	208 - 549	2439	Trp-38 to Phe-43, Phe-103 to Trp-109.	1, H0441: 1, H0497: 1, H0486: 1, H0590: 1, H0618: 1, H0318: 1, H0050: 1, H0617: 1, H0634: 1, T0041: 1, H0529: 1, L0803: 1, L0663: 1, H0697: 1, H0593: 1, H0658: 1, H0436: 1, L0742: 1, L0743: 1, L0750: 1, L0758: 1, L0593: 1, L0603: 1, H0136: 1, H0543: 1 and H0422: 1.					65-91
1025	HSDEK82	882064	1035	129 - 503	2440	Pro-5 to Gln-17.	AR060: 243, AR033: 180, AR061: 154, AR039: 144, AR104: 119, AR055: 109, AR089: 102, AR053: 56, AR052: 54, AR096: 51 L0777: 1 and H0445: 1. AR104: 20, AR033: 14, AR060: 7, AR055: 7, AR039: 6, AR096: 5, AR061: 5, AR089: 4, AR053: 3, AR052: 3 S0051: 5, L0666: 4, S0388: 3, L0438: 3, S0036: 2, L0774: 2, L0805: 2, H0593: 2, H0670: 2, L0748: 2, L0752: 2, S0434: 2, S6024: 1, H0294: 1, S0030: 1, S0442: 1, S0360: 1, H0406:					61-91, 34- 58, 99-119

1026	HCEMU86	882164	1036	347 - 787	2441	Pro-83 to Thr-88.	1, S0010: 1, L0040: 1, H0012: 1, H0620: 1, H0014: 1, S0048: 1, T0010: 1, H0673: 1, H0038: 1, H0494: 1, L0770: 1, L0769: 1, L0662: 1, L0806: 1, L0783: 1, L0663: 1, L0664: 1, S0330: 1, H0478: 1, L0741: 1, L0779: 1 and S0031: 1. AR104: 6, AR033: 6, AR055: 4, AR039: 3, AR096: 3, AR060: 3, AR089: 3, AR061: 2, AR053: 2, AR052: 2 L0439: 21, L0438: 12, L0769: 9, T0010: 6, H0052: 5, L0776: 4, L0805: 3, S0126: 3, L0741: 3, L0589: 3, H0261: 2, T0006: 2, L0455: 2, L0659: 2, H0519: 2, L0742: 2, L0748: 2, L0751: 2, L0592: 2, S0276: 2, H0583: 1, L0418: 1, S0298: 1, S0001: 1, S0400: 1, L0394: 1, S0222: 1, H0455: 1, H0331: 1, H0156: 1, T0082: 1, N0006: 1, H0570: 1, S6028: 1, H0644: 1, S0036: 1, H0100: 1, L0351: 1, S0352: 1, L0598:					95-118, 51-73, 117-137, 6-23, 31- 48
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1027	HKA60	882197	1037	137 - 496	2442	Met-2 to Asn-7, Arg-21 to Tyr-29, Gln-33 to Ile-41, Ala-103 to Asp-120.	1, L0369: 1, L0638: 1, L0793: 1, H0520: 1, L0777: 1, L0752: 1, L0753: 1, L0758: 1, L0593: 1 and L0366: 1. AR096: 9, AR089: 8, AR104: 8, AR053: 7, AR052: 7, AR060: 5, AR039: 5, AR033: 4, AR055: 4, AR061: 2 H0585: 19, L0747: 15, L0748: 13, L0731: 11, L0777: 10, L0438: 9, H0141: 8, L0755: 8, H0046: 7, L0766: 7, S0003: 6, L0803: 6, L0805: 6, L0439: 6, L0779: 6, L0758: 6, S0360: 5, L0770: 5, L0774: 5, S0126: 5, L0740: 5, L0588: 5, H0545: 4, H0040: 4, L0763: 4, H0144: 4, L0749: 4, L0596: 4, L0485: 4, H0556: 3, H0657: 3, S0358: 3, S0476: 3, H0599: 3, S0010: 3, H0024: 3, H0014: 3, H0622: 3, H0494: 3, S0426: 3, L0776: 3, L0809: 3, S0152: 3, L0752: 3, H0265: 2, S0408: 2, H0574: 2, H0632: 2, S0280:					40-73, 73- 99
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				2, H0156: 2, H0581: 2, H0123: 2, H0051: 2, H0510: 2, H0634: 2, H0616: 2, S0440: 2, L0598: 2, L0369: 2, L0646: 2, L0775: 2, L0651: 2, L0653: 2, L0807: 2, L0665: 2, H0547: 2, H0519: 2, H0659: 2, S0378: 2, S0380: 2, H0704: 2, S0044: 2, S0027: 2, L0754: 2, L0745: 2, L0599: 2, L0362: 2, L0601: 2, H0653: 2, H0423: 2, T0002: 1, H0716: 1, S6024: 1, T0049: 1, S0218: 1, H0656: 1, H0341: 1, H0664: 1, H0638: 1, S0420: 1, S0356: 1, S0444: 1, H0208: 1, S0045: 1, S0132: 1, H0645: 1, L0717: 1, H0351: 1, S0278: 1, H0369: 1, S0222: 1, H0370: 1, H0357: 1, H0587: 1, H0331: 1, H0486: 1, H0635: 1, H0002: 1, H0042: 1, H0122: 1, H0706: 1, S0346: 1, S0474: 1, H0052: 1, H0263: 1, T0115: 1, H0327: 1, H0530: 1, H0198: 1, H0023: 1, H0015: 1, H0239: 1, H0594: 1, S6028:							
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				1, H0266: 1, S0022: 1, H0252: 1, H0328: 1, H0615: 1, H0428: 1, T0006: 1, H0032: 1, H0068: 1, H0316: 1, H0135: 1, H0163: 1, H0090: 1, H0591: 1, H0038: 1, H0551: 1, H0412: 1, H0413: 1, H0100: 1, T0042: 1, H0625: 1, L0065: 1, S0150: 1, H0633: 1, H0646: 1, H0649: 1, H0652: 1, S0142: 1, S0002: 1, L0769: 1, L0761: 1, L0667: 1, L0772: 1, L0373: 1, L0643: 1, L0764: 1, L0771: 1, L0662: 1, L0794: 1, L0784: 1, L0806: 1, L0526: 1, L0547: 1, L0647: 1, L0791: 1, L0666: 1, L0663: 1, H0701: 1, H0691: 1, H0593: 1, H0682: 1, H0658: 1, L0355: 1, S0328: 1, H0539: 1, H0710: 1, H0518: 1, H0521: 1, H0522: 1, H0478: 1, S0206: 1, L0751: 1, L0746: 1, L0750: 1, L0780: 1, L0757: 1, L0759: 1, L0592: 1, L0594: 1, H0668: 1, S0026: 1, S0196: 1, H0543: 1, H0422: 1 and						
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1028	HEORN16	882261	1038	431 - 1084	2443	Met-99 to Ala-114, Pro-138 to Arg-143, Thr-169 to Arg-176, Ser-207 to Pro-218.	S0460: 1. AR033: 4, AR089: 3, AR053: 2, AR060: 2, AR061: 2, AR055: 2, AR096: 1, AR052: 1, AR039: 0, AR104: 0 L0747: 5, L0749: 4, H0657: 3, H0553: 3, L0758: 3, S0040: 2, H0341: 2, L0789: 2, L0748: 2, L0779: 2, L0753: 2, H0542: 2, H0265: 1, H0669: 1, S0418: 1, H0370: 1, H0586: 1, H0497: 1, H0427: 1, H0036: 1, H0253: 1, H0457: 1, H0086: 1, H0081: 1, H0355: 1, S0338: 1, S0340: 1, H0039: 1, H0181: 1, S0366: 1, H0598: 1, H0135: 1, H0063: 1, H0412: 1, H0413: 1, H0652: 1, S0422: 1, S0002: 1, H0529: 1, L0369: 1, L0770: 1, L0772: 1, L0642: 1, L0771: 1, L0521: 1, L0381: 1, H0658: 1, H0666: 1, H0539: 1, H0521: 1, H0522: 1, S0044: 1, H0187: 1, H0436: 1, L0741: 1, L0746: 1, L0777: 1, L0780: 1, H0343: 1, H0595:				40-61, 1- 22, 61-77
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1029	HKGBJ74	882285	1039	183 - 530	2444			1, H0707: 1, S0434: 1 and S0424: 1. AR052: 4, AR096: 4, AR053: 4, AR104: 3, AR039: 3, AR089: 2, AR055: 2, AR033: 2, AR060: 1, AR061: 1 H0549: 1 and H0538: 1.			42-58, 98- 114
1030	HOSPA48	882296	1040	119 - 1126	2445	Ala-6 to Gly-11, Ser-20 to Ser-30, Ser-60 to Ser-65, Ser-157 to Glu-170, Lys-179 to Asp-184, Ser-285 to Val-290, Pro-306 to Ser-314.		AR053: 1, AR104: 1, AR052: 1, AR089: 1, AR061: 0, AR033: 0, AR096: 0, AR060: 0, AR039: 0, AR055: 0 S0003: 6, L0777: 4, L0752: 4, H0617: 3, H0553: 2, H0124: 2, L0804: 2, L0757: 2, H0662: 1, S0045: 1, H0266: 1, S0214: 1, H0598: 1, L0666: 1, S0126: 1, H0651: 1, L0588: 1 and H0422: 1.			317-336, 131-147, 30-46, 201-217
1031	HWHQN1 6	882307	1041	124 - 1023	2446	Met-1 to Tyr-17.		AR055: 3, AR060: 3, AR033: 3, AR061: 2, AR104: 2, AR053: 1, AR039: 1, AR089: 1, AR096: 1, AR052: 1 L0748: 12, H0521: 11, L0755: 9, S0474: 8, L0662: 7, S0436: 7, L0596: 6,			213-245, 184-211, 100-130, 133-156, 247-267, 162-181

			S0342: 1, H0713: 1, H0716: 1, H0295: 1, S0218: 1, S0116: 1, S0212: 1, H0484: 1, H0664: 1, H0662: 1, S0418: 1, S0442: 1, S0354: 1, H0729: 1, H0722: 1, H0733: 1, L0717: 1, H0431: 1, H0600: 1, H0587: 1, H0333: 1, H0331: 1, H0559: 1, H0486: 1, H0013: 1, H0250: 1, H0427: 1, S0280: 1, L0021: 1, H0599: 1, H0036: 1, L0563: 1, H0581: 1, H0173: 1, H0545: 1, H0457: 1, L0041: 1, H0150: 1, H0123: 1, H0081: 1, H0050: 1, H0197: 1, T0010: 1, H0375: 1, H0267: 1, H0188: 1, S0250: 1, H0032: 1, H0040: 1, H0616: 1, H0087: 1, H0413: 1, H0100: 1, S0112: 1, H0560: 1, H0561: 1, H0131: 1, S0144: 1, S0142: 1, S0344: 1, L0631: 1, L0770: 1, L0772: 1, L0646: 1, L0643: 1, L0771: 1, L0773: 1, L0363: 1, L0766: 1, L0650: 1, L0375: 1, L0376: 1, L0654: 1, L0655: 1, L0658: 1			
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1032	HRDEP41	882351	1042	33 - 500	2447	Gly-48 to Tyr-53, His-95 to Trp-117, Ser-123 to Gln-128.	L0382: 1, L0543: 1, L0664: 1, S0428: 1, H0690: 1, H0682: 1, H0670: 1, H0660: 1, H0648: 1, H0710: 1, H0518: 1, S0152: 1, H0522: 1, S0406: 1, H0478: 1, L0611: 1, S0390: 1, S0037: 1, S0206: 1, L0743: 1, L0758: 1, S0031: 1, S0260: 1, H0595: 1, L0588: 1, L0604: 1, H0423: 1 and H0422: 1. AR033: 12, AR104: 7, AR055: 5, AR060: 3, AR053: 3, AR052: 3, AR096: 3, AR089: 2, AR061: 2, AR039: 0 S0022: 6, L0770: 6, L0769: 6, L0758: 5, S0051: 4, H0521: 4, L0747: 4, L0756: 4, H0638: 3, H0124: 3, L0794: 3, L0805: 3, S0278: 2, S0222: 2, H0052: 2, H0327: 2, H0100: 2, L0789: 2, L0438: 2, L0439: 2, L0751: 2, L0777: 2, L0591: 2, S0282: 1, S0356: 1, L0717: 1, H0441: 1, H0587: 1, L0163: 1, H0051: 1, S0048: 1, H0594: 1,					63-89, 2- 18
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1033	HFVIK60	882352	1043	589 - 999	2448					H0328: 1, L0455: 1, S0036: 1, S0038: 1, S0344: 1, L0761: 1, L0775: 1, L0375: 1, L0776: 1, L0659: 1, L0809: 1, L0647: 1, L0750: 1, L0753: 1 and H0445: 1.	7q22	126650, 126650, 154276, 173360, 173360, 602136, 602136, 602136, 602447	73-102, 2- 25	
1034	HTJAC60	882355	1044	78 - 1106	2449	Met-1 to Pro-6, Arg-14 to Thr-29, Thr-41 to Thr-48, Ser-50 to Leu-58, Glu-82 to Arg-90, Asn-185 to Lys-190, Gln-217 to Gln-222, Gln-237 to Gly-243,				AR053: 60, AR052: 54, AR096: 52, AR039: 28, AR089: 18, AR055: 16, AR033: 15, AR104: 11, AR060: 11, AR061: 10 H0253: 5, L0758: 3, S0444: 2, H0333: 2, H0510: 2, L0783: 2, S0406: 2,			134-156, 305-323, 271-287, 105-121, 166-182	

						Lys-332 to Asp-343.	L0744: 2, L0754: 2, L0747: 2, L0749: 2, S0436: 2, H0422: 2, H0265: 1, H0717: 1, H0716: 1, S6024: 1, H0341: 1, H0484: 1, H0192: 1, S0360: 1, S0408: 1, T0008: 1, H0580: 1, H0393: 1, S0280: 1, H0196: 1, H0544: 1, H0545: 1, H0086: 1, H0009: 1, H0123: 1, H0620: 1, H0024: 1, S0362: 1, S0051: 1, H0188: 1, H0284: 1, H0428: 1, H0606: 1, H0135: 1, H0063: 1, H0487: 1, S0440: 1, L0768: 1, L0806: 1, L0653: 1, L0791: 1, L0666: 1, L0438: 1, H0672: 1, H0539: 1, S3014: 1, L0743: 1, L0752: 1, H0444: 1, H0423: 1 and H0677: 1.				
1035	HMAIH15	882500	1045	105 - 734	2450	Gln-32 to Leu-40, Asn-177 to Trp-182.	AR096: 2, AR039: 2, AR033: 2, AR060: 2, AR053: 1, AR089: 1, AR061: 0, AR055: 0, AR052: 0, AR104: 0 S0278: 1	186-210, 1-24, 76-102, 137-154, 38-56, 58-77, 156-172			
1036	HTTDZ74	882514	1046	70 - 618	2451		AR033: 248, AR061: 210, AR060: 198, AR089: 122,	16-47, 61-84, 91-			